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August 1984

Production, Prices, Employment, and Trade in Northwest Forest Industries, First Quarter 1984

Florence K. Ruderman

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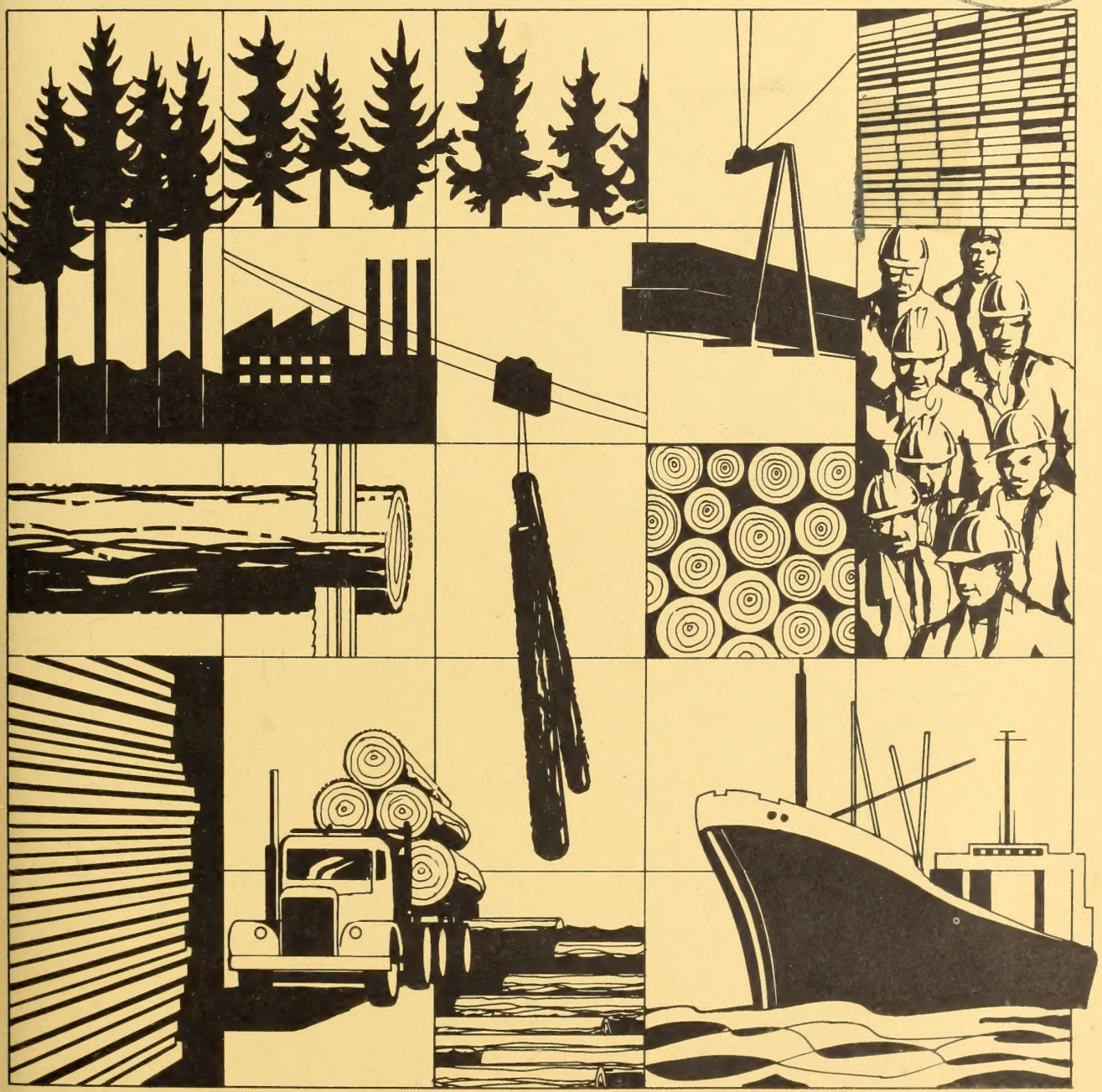

ABSTRACT

Ruderman, Florence K. Production, prices, employment, and trade in Northwest forest industries, first quarter 1984. Resour. Bull. PNW-113. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1984. 56 p.

Provides current information on lumber and plywood production and prices; employment in the forest industries; international trade in logs, lumber, and plywood; volume and average prices of stumpage sold by public agencies; and other related items.

Keywords: Forestry business economics, lumber prices, plywood prices, timber volume, stumpage prices, employment (forest products industries), marketing, (forest products), import/export (forest products), markets (external), economics (forestry business).

PREFACE

This report presents current information on the timber situation in Alaska, Washington, Oregon, California, Montana, Idaho, and British Columbia, including data on lumber and plywood production and prices; timber harvest; employment in forest products industries; international trade in logs, pulpwood, chips, lumber, and plywood; log prices in the Pacific Northwest; volume and average prices of stumpage sold by public agencies; and other related items.

Historical data for the years before 1973 are in the 1979 issues of "Production, Prices, Employment, and Trade in Northwest Forest Industries."

Cooperation in supplying data has been received from the following sources: the U.S. Department of Agriculture, Forest Service, Forest Resources Economics Research Staff in Washington, D.C.; Washington State Department of Natural Resources and Employment Security Department; Oregon State Department of Forestry and Department of Employment; California State Department of Employment and Department of Conservation; Montana State Forester and State Employment Service; Idaho State Department of Public Lands and Department of Employment; Alaska State Department of Labor and Department of Natural Resources of the Division of Lands; U.S. Department of Commerce; U.S. Department of the Interior, Bureau of Land Management and Bureau of Indian Affairs; British Columbia Department of Industrial Development, Trade, and Commerce; and a number of private industry associations, firms, and individuals.

The statistical data are from secondary sources and are brought together to make such information more readily available. Sources are indicated for each table and can be contacted directly for means used in data collection.

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Washington and Oregon timber harvest by ownership, 1972-82	A	Third quarter 1983
Montana and Idaho timber harvest by ownership, 1972-82	A	Third quarter 1983
British Columbia timber harvest, 1972-83	A	Third quarter 1983

[1/] A: Published annually as data become available.
B: Published biannually as data become available.
P: Published periodically as data become available.
Q: Published quarterly as data become available.

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Noble fir log prices, western Washington and northwestern Oregon, 1972-82	A	Second quarter 1983
White fir log prices, western Washington and northwestern Oregon, 1972-82	A	Second quarter 1983
Sitka spruce log prices, western Washington and northwestern Oregon, 1972-82	A	Second quarter 1983
Western redcedar log prices, western Washington and northwestern Oregon, 1972-82	A	Second quarter 1983

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Average stumpage prices for sawtimber sold on National Forests by selected species, Northern Region, 1973-84	Q	Current, Table 33
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Table 1--Softwood lumber production in Western United States by region, and U.S. softwood plywood production, 1973-84

YEAR	SOFTWOOD LUMBER PRODUCTION				U.S. SOFTWOOD PLYWOOD PRODUCTION[3]
	TOTAL SOFTWOOD LUMBER	WESTERN WASHINGTON AND WESTERN OREGON[1]	CALIFORNIA REDWOOD REGION	INLAND REGION[2]	
	Million board feet				Million sq ft, 3/8-inch basis
1973	22,267	9,074	2,629	10,564	18,305
1974	19,425	7,777	2,675	8,973	15,878
1975	17,773	7,134	2,194	8,445	16,050
1976	20,611	8,322	2,500	9,789	18,440
1977	21,558	8,796	2,453	10,309	19,677
1978	20,780	8,845	1,902	10,033	19,936
1979	20,045	8,427	1,838	9,780	20,022
1980	16,045	6,815	1,617	7,613	16,573
1981	15,004	6,339	1,455	7,210	17,073
1982	13,851	5,174	1,342	6,735	17,150
1983	17,798	7,645	1,604	8,549	20,926
1984--					
January	1,588	708	156	724	1,757
February	1,468	666	147	655	1,828
March	1,845	819	153	873	1,973
Total, 1st quarter	4,901	2,193	456	2,252	5,558
April					
May					
June					
Total, 2d quarter					
July					
August					
September					
Total, 3d quarter					
October					
November					
December					
Total, 4th quarter					
1984 total					
	1st quarter 1984 change, in percent				
From--					
4th quarter 1983	13.9	21.2	22.3	6.2	3.5
1st quarter 1983	13.2R	12.4R	6.0R	15.7R	11.1

Source--Western Wood Products Association, Portland, Oregon (western Washington and western Oregon and inland region), National Forest Products Association, Washington, D.C. (California redwood region), and American Plywood Association, Tacoma, Washington (U.S. softwood plywood data).

[1]Includes small amounts of hardwood.

[2]Inland region includes eastern Washington, eastern Oregon, California (except redwood region), Nevada, Idaho, Montana, Wyoming, Utah, Colorado, Arizona, New Mexico, and a portion of South Dakota.

[3]Data for 1974 and 1975 are based in part on sampling.

R = revised.

Table 2--Softwood plywood production in the United States, by State, 1973-83
(In million square feet, 3/8-inch basis)

YEAR	TOTAL	OREGON	WASHINGTON	CALIFORNIA	MONTANA, IDAHO, AND COLORADO	SOUTHERN STATES[1]	NORTHERN STATES[2]
1973	18,304.6	8,518.6	2,232.5	963.8	1,031.0	5,558.7	0
1974	15,878.3	7,055.6	1,853.3	843.6	995.7	5,130.1	0
1975	16,050.3	6,927.4	1,723.7	649.6	1,074.1	5,675.5	0
1976	18,440.0	7,917.0	1,894.0	603.0	1,212.0	6,814.0	0
1977	19,376.2	8,109.2	2,013.0	552.0	1,255.0	7,447.0	0
1978	19,964.4	8,226.4	2,084.2	510.7	1,245.0	7,898.1	0
1979	19,653.0	7,929.0	1,727.0	463.0	1,205.0	8,329.0	0
1980	16,468.0	6,179.0	1,333.0	319.0	1,088.0	7,393.0	156.0
1981	17,022.9	5,561.6	1,381.7	351.1	1,129.7	8,306.8	292.0
1982	16,402.6	5,113.9	1,165.8	195.5	874.4	8,455.7	597.3
1983	20,767.0	6,719.0	1,369.0	260.0	1,152.0	9,967.0	1,300.0

Source--American Plywood Association.

[1] Southern States include Alabama, Arkansas, Florida, Georgia, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Texas, and Virginia.

[2] Northern States include Maine, Michigan, Minnesota, New Hampshire, New York, Wisconsin.

Table 3--Wholesale prices of selected lumber products, 1973-84

(In dollars per thousand board feet)

YEAR	DOUGLAS-FIR STD. AND BTR., 2 BY 4 RL, 8/12', KD, NET, F.O.B. MILL	PONDEROSA PINE BOARDS, NO. 3, 1 BY 12 RL, KD, NET, F.O.B. MILL	PONDEROSA PINE, NO. 2 SHOP, 6/4 RWRL, S2S, NET, F.O.B. MILL	FIR-LARCH STD. AND BTR., 2 BY 4 RL, 8/20', KD, NET, F.O.B. MILL	SPRUCE-PINE-FIR STD. AND BTR., 2 by 4 RL, 8/20', KD, NET, F.O.B. MILL
1973	177.00	189.00	233.00	173.00	152.00
1974	144.00	162.00	247.00	136.00	120.00
1975	148.00	144.00	205.00	144.00	117.00
1976	178.00	188.00	318.00	169.00	151.00
1977	213.00	229.00	380.00	202.00	173.00
1978	241.00	263.00	459.00	238.00	209.00
1979	260.00	309.00	479.00	201.00	225.00
1980	209.00	296.00	478.00	201.00	168.00
1981	190.00	296.00	483.00	181.00	158.00
1982	167.00	253.00	357.00	160.00	141.00
1983	222.00	258.00	571.00	213.00	185.00
1984--					
January	208.25	307.25	593.75	197.00	167.25
February	219.25	327.50	590.00	207.75	187.25
March	226.00	341.00	590.00	221.60	185.80
Average, 1st quarter	217.83	325.25	591.25	208.78	180.10
April					
May					
June					
Average, 2d quarter					
July					
August					
September					
Average, 3d quarter					
October					
November					
December					
Average, 4th quarter					
1984 average					
	- - - - - - - - - - - - - - - - - - 1st quarter 1984 change, in percent - - - - - - - - - - - - - - - - - -				
From--					
4th quarter 1983	8.9	15.7	-.5	3.9	7.8
1st quarter 1983	-4.5	24.1	14.8	-1.1	.1

Source--Random Lengths Publications, Inc.

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Table 4--Wholesale prices of selected softwood plywood products, 1973-84

(In dollars per thousand square feet)

YEAR	SHEATHING, WESTERN EXTERIOR, 3/8-INCH, CD, NET F.O.B. MILL	SHEATHING, SOUTHERN (WEST)1/ EXTERIOR, 3/8-INCH, CD, NET F.O.B. MILL	SANDED, WESTERN INTERIOR, 1/4-INCH, AD, NET F.O.B. MILL
1973	107.00	100.00	127.00
1974	92.00	94.00	140.00
1975	99.00	95.00	146.00
1976	127.00	125.00	160.00
1977	157.00	159.00	183.00
1978	169.00	174.00	214.00
1979	164.00	156.00	221.00
1980	155.00	155.00	211.00
1981	148.00	140.00	203.00
1982	135.00	139.00	185.00
1983	154.00	158.00	179.00
1984--			
January	151.75	152.25	179.75
February	157.00	156.50	185.25
March	156.40	155.60	183.80
Average, 1st quarter	155.05	154.78	182.93
April			
May			
June			
Average, 2d quarter			
July			
August			
September			
Average, 3d quarter			
October			
November			
December			
Average, 4th quarter			
1984 average			
	- - - - - - - - 1st quarter 1984 change, in percent - - - - - -		
From--			
4th quarter 1983	1.3	3.9	6.4
1st quarter 1983	-.6	-5.0	3.4

Source--Random Lengths Publications, Inc.

1/ Texas, Louisiana, Arkansas.

Table 5--Employment in forest products industries in Washington, Oregon, and Alaska, 1973-84

(In thousands of persons)

YEAR	WASHINGTON AND OREGON			WASHINGTON			OREGON			ALASKA		
	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PULP AND ALLIED PRODUCTS
1973	155.3	127.9	27.4	66.8	49.1	17.7	88.5	78.8	9.7	--	2.3	2/
1974	152.1	124.5	27.6	67.3	49.7	17.6	84.8	74.8	10.0	--	2.5	2/
1975	137.2	110.8	26.4	60.4	43.8	16.6	76.8	67.0	9.8	--	2.0	2/
1976	150.9	123.4	27.5	68.4	51.0	17.4	82.5	72.4	10.1	3.4	2.3	1.1
1977	159.2	131.4	27.8	71.6	53.9	17.7	87.6	77.5	10.1	3.6	2.2	1.4
1978	159.3	136.5	22.8	69.1	55.1	14.0	90.2	81.4	8.8	2.9	1.8	1.1
1979	159.0	133.4	25.6	68.4	52.6	15.8	90.6	80.8	9.8	3.0	2.0	1.0
1980	144.1	116.1	28.0	64.1	46.5	17.6	80.0	69.6	10.4	3.4	2.3	1.1
1981	135.6	108.1	27.5	61.6	44.4	17.2	74.0	63.7	10.3	2.8	1.9	.9
1982	120.4	94.5	25.9	55.2	39.0	16.2	65.2	55.5	9.7	2.6	1.8	.8
1983	129.3	104.0	25.3	57.6	41.7	15.9	71.7	62.3	9.4	2.7	1.9	.8
1984--												
January	127.3	102.2	25.1	54.9	39.1	15.8	72.4	63.1	9.3	1.6P	.9P	.7P
February	128.4	103.3	25.1	55.8	40.0	15.8	72.6	63.3	9.3	1.7P	1.0P	.7P
March	131.1	105.8	25.3	57.4	41.4	16.0	73.7	64.4	9.3	2.0P	1.3P	.7P
Average, 1st quarter	128.9	103.8	25.1	56.0	40.2	15.8	72.9	63.6	9.3	1.8P	1.1P	.7P
April												
May												
June												
Average, 2d quarter												
July												
August												
September												
Average, 3d quarter												
October												
November												
December												
Average, 4th quarter												
1984 average												
	- 1st quarter 1984 change in employment -											
From--												
4th quarter 1983	-1.6R	-1.4R	-.2R	-1.0	-.8	-.2	-.6R	-.6R	0	-.7P	-.7P	0P
1st quarter 1983	10.3R	10.1R	.2	2.7R	2.5R	.2	7.6R	7.6R	0	-.4P	-.4P	0P

Source--State employment agencies. Includes both covered and noncovered employment. The lumber and wood products industry includes logging, lumber, plywood, poles and piling, and miscellaneous wood products (excludes furniture). The paper and allied products industry includes pulp, paper, paperboard, and building board products. Since April 1974, employment data have been based on place of residence.

[1]Before 1973, data for the pulp and allied products industry are included in the lumber and wood products industry.

[2]Withheld to avoid disclosure.

R = revised.

P = preliminary.

Table 6--Employment in forest products industries in California, 1972-83

(In thousands of persons)

YEAR	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS
1972	90.3	52.4	37.9
1973	90.2	54.1	36.1
1974	88.2	50.9	37.3
1975	87.3	52.8	34.5
1976	96.6	59.9	36.7
1977	104.2	66.6	37.6
1978	107.1	69.9	37.2
1979	107.8	68.7	39.1
1980	101.3	62.6	38.7
1981	96.6	57.9	38.7
1982	83.7	46.2	37.5
1983--			
January	79.2	42.8	36.4
February	80.4	44.0	36.4
March	73.1	36.4	36.7
Average, 1st quarter	77.6	41.1	36.5
April	83.0	46.6	36.4
May	86.1	49.3	36.8
June	90.1	52.6	37.5
Average, 2d quarter	86.4	49.5	36.9
July	92.8	54.8	38.0
August	93.8	55.9	37.9
September	95.3	57.0	38.3
Average, 3d quarter	94.0	55.9	38.1
October	94.0	56.2	37.8
November	92.2	54.4	37.8
December	89.9	52.1	37.8
Average, 4th quarter	92.0	54.2	37.8
1983 average	87.5	50.2	37.3
	- - - - 4th quarter 1983 change in employment - - -		
From--			
3d quarter 1983	-2.0	-1.7	-.3
4th quarter 1982	9.9	8.9	1.0
	- - - - Year 1983 change in employment - - - -		
From year 1982	3.8	4.0	-.2

Source--State of California, Department of Employment. Since April 1974, data have been based on place of residence.

Table 7--Employment in forest products industries in Montana and Idaho, 1973-84

(In thousands of persons)

YEAR	MONTANA		IDAHO		
	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS
1973	9.8	1/	16.3	15.1	1.2
1974	9.5	1/	15.7	14.6	1.1
1975	8.1	1/	16.8	15.7	1.1
1976	9.1	1/	18.6	17.4	1.2
1977	9.3	1/	19.0	17.8	1.2
1978	10.7	1/	20.1	18.8	1.3
1979	11.1	1/	19.9	18.5	1.4
1980	8.7	1/	17.5	16.1	1.4
1981	8.8	1/	16.6	15.1	1.5
1982	6.8	1/	13.6	12.1	1.5
1983	8.0	1/	15.6	14.0	1.6
1984--					
January	7.8	1/	15.6	13.9	1.7
February	7.7	1/	15.3	13.7	1.6
March	7.6	1/	14.1	12.4	1.7
Average, 1st quarter	7.7	1/	15.0	13.3	1.7
April					
May					
June					
Average, 2d quarter					
July					
August					
September					
Average, 3d quarter					
October					
November					
December					
Average, 4th quarter					
1984 average					
	- - - - - - - - - - 1st quarter 1984 change in employment - - - - - - - - - -				
From--					
4th quarter 1983	-.4	1/	-1.6	-1.7	.1
1st quarter 1983	.1	1/	1.7	1.5	.2

Source--State employment agencies. Since April 1974, employment data have been based on place of residence.

1/ Withheld to avoid disclosing figures for individual companies.

Table 8--Softwood log exports from Washington and Oregon ports, by origin, species, and destination, 1973-84

(In thousand board feet, Scribner scale)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO ALL COUNTRIES						
1973	2,639,210	864,474	20,966	1,753,770	1,833,293	555,324	1,277,969	805,917	309,150	20,966	475,801
1974	2,189,367	715,514	17,481	1,456,372	1,423,570	404,884	1,018,686	765,797	310,630	17,481	437,686
1975	2,225,487	765,840	24,361	1,435,286	1,427,387	437,290	990,097	798,100	328,550	24,361	445,189
1976	2,737,074	945,649	26,576	1,764,849	1,792,944	527,889	1,265,055	944,130	417,760	26,576	499,794
1977	2,555,615	966,763	16,721	1,572,131	1,674,860	556,419	1,118,441	880,755	410,344	16,721	453,690
1978	2,847,394	1,139,267	24,493	1,683,634	1,915,979	619,500	1,296,479	931,415	519,767	24,493	387,155
1979	3,233,652	1,309,179	22,693	1,901,780	2,249,963	732,392	1,517,571	983,689	576,787	22,693	384,209
1980	2,631,817	1,262,210	12,300	1,357,307	1,699,138	645,073	1,054,065	932,679	617,137	12,300	303,242
1981	1,987,159	1,017,154	15,520	954,485	1,315,882	579,034	736,848	671,277	438,120	15,520	217,637
1982	2,567,644	1,427,835	11,299	1,128,510	1,596,793	729,844	866,949	970,851	697,991	11,299	261,561
1983--											
1st qtr.	577,494	305,497	1,963	270,034	401,147	181,023	220,124	176,347	124,474	1,963	49,910
2d qtr.	609,927	333,481	1,486	274,960	412,019	187,493	224,526	197,908	145,988	1,486	50,434
3d qtr.	762,363	416,444	3,063	342,856	514,979	239,157	275,822	247,384	177,287	3,063	67,034.
4th qtr.	641,735	362,296	2,420	277,019	411,631	188,626	223,005	230,104	173,670	2,420	54,014
1983 total	2,591,519	1,417,718	8,932	1,164,869	1,739,776	796,299	943,477	851,743	621,419	8,932	221,392
1984--											
1st qtr.	652,036	375,222	2,412	274,402	449,836	222,174	227,662	202,200	153,048	2,412	46,740
2d qtr.											
3d qtr.											
4th qtr.											
1984 total											
					TO JAPAN						
1973	2,455,485	822,160	20,966	1,612,359	1,663,203	520,373	1,142,830	792,282	301,787	20,966	469,529
1974	1,975,575	638,225	17,342	1,320,008	1,237,653	341,890	895,763	737,922	296,335	17,342	424,245
1975	2,014,244	732,264	24,361	1,257,619	1,255,817	410,721	845,096	758,427	321,543	24,361	412,523
1976	2,547,037	901,911	24,573	1,620,553	1,623,064	491,451	1,131,613	923,973	410,460	24,573	488,940
1977	2,348,325	933,813	16,721	1,397,791	1,496,627	526,255	970,372	851,698	407,558	16,721	427,419
1978	2,521,885	1,103,562	22,814	1,395,509	1,630,247	589,654	1,040,593	891,638	513,908	22,814	354,916
1979	2,959,726	1,279,177	20,611	1,659,938	1,998,315	705,921	1,292,394	961,411	573,256	20,611	367,544
1980	2,344,322	1,175,407	12,300	1,156,615	1,488,494	602,605	885,889	855,828	572,802	12,300	270,726
1981	1,603,941	846,474	15,495	741,972	1,003,391	452,724	550,667	600,550	393,750	15,495	191,305
1982	1,738,187	990,634	11,272	736,281	992,903	457,649	535,254	745,284	532,985	11,272	201,027
1983--											
1st qtr.	409,186	214,008	1,963	193,215	252,587	102,641	149,946	156,599	111,367	1,963	43,269
2d qtr.	418,508	241,044	1,486	175,978	253,590	122,555	131,035	164,918	118,489	1,486	44,943
3d qtr.	400,394	230,422	3,063	166,909	228,968	112,900	116,068	171,426	117,522	3,063	50,841
4th qtr.	363,198	210,242	2,420	150,536	198,539	92,341	106,198	164,659	117,901	2,420	44,338
1983 total	1,591,286	895,716	8,932	686,638	933,684	430,437	503,247	657,602	465,279	8,932	183,391
1984--											
1st qtr.	366,226	216,078	2,405	147,743	217,516	103,279	114,237	148,710	112,799	2,405	33,506
2d qtr.											
3d qtr.											
4th qtr											
1984 total											

Table 8-Softwood log exports from Washington and Oregon ports, by origin, species, and destination, 1973-84 (continued)

(In thousand board feet, Scribner scale)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
TO CANADA											
1973	72,164	22,265	--	49,899	72,164	22,265	49,899	--	--	--	--
1974	73,664	39,060	--	34,604	73,664	39,060	34,604	--	--	--	--
1975	58,506	16,793	--	41,713	58,506	16,793	41,713	--	--	--	--
1976	48,289	14,803	--	33,486	48,289	14,803	33,486	--	--	--	--
1977	15,698	9,531	--	6,167	15,698	9,531	6,167	--	--	--	--
1978	12,638	9,361	--	3,277	12,638	9,361	3,277	--	--	--	--
1979	24,124	7,737	--	16,387	24,124	7,737	16,387	--	--	--	--
1980	985	395	--	590	985	395	590	--	--	--	--
1981	1,332	392	--	940	1,332	392	940	--	--	--	--
1982	4,757	635	--	4,122	4,757	635	4,122	--	--	--	--
1983--											
1st qtr.	120	--	--	120	120	--	120	--	--	--	--
2d qtr.	3,014	397	--	2,617	3,014	397	2,617	--	--	--	--
3d qtr.	50	--	--	50	50	--	50	--	--	--	--
4th qtr.	2,032	--	--	2,032	2,032	--	2,032	--	--	--	--
1983 total	5,216	397	--	4,819	5,216	397	4,819	--	--	--	--
1984--											
1st qtr.	3,978	989	--	2,989	3,978	989	2,989	--	--	--	--
2d qtr.											
3d qtr.											
4th qtr.											
1984 total											
TO SOUTH KOREA											
1973	101,929	15,175	--	86,754	96,680	12,063	84,617	5,249	3,112	--	2,137
1974	137,665	36,308	--	101,357	111,580	23,378	88,202	26,085	12,930	--	13,155
1975	79,022	13,946	--	65,076	42,100	9,100	33,000	36,922	4,846	--	32,076
1976	130,069	26,454	--	103,615	117,007	21,068	95,939	13,062	5,386	--	7,676
1977	187,967	21,201	--	166,766	162,252	20,418	141,834	25,715	783	--	24,932
1978	307,865	24,844	--	283,021	271,887	20,426	251,461	35,978	4,418	--	31,560
1979	245,314	20,342	--	224,972	227,072	18,653	208,419	18,242	1,689	--	16,553
1980	191,387	11,796	--	179,591	163,988	9,549	154,439	27,399	2,247	--	25,152
1981	147,833	10,919	--	136,914	132,675	9,333	123,342	15,158	1,586	--	13,572
1982	254,736	27,809	--	226,927	220,126	23,841	196,285	34,610	3,968	--	30,642
1983--											
1st qtr.	60,064	2,551	--	57,513	53,230	2,358	50,872	6,834	193	--	6,641
2d qtr.	79,983	11,588	--	68,395	74,359	11,407	62,952	5,624	181	--	5,443
3d qtr.	81,133	2,245	--	78,888	72,394	730	71,664	8,739	1,515	--	7,224
4th qtr.	64,458	3,004	--	61,454	59,385	1,911	57,474	5,073	1,093	--	3,980
1983 total	285,638	19,388	--	266,250	259,368	16,406	242,962	26,270	2,982	--	23,288
1984--											
1st qtr.	44,920	856	7	44,057	37,999	338	37,661	6,921	518	7	6,396
2d qtr.											
3d qtr.											
4th qtr.											
1984 total											
TO MAINLAND CHINA											
1980	87,785	69,901	--	17,884	43,271	31,884	11,387	44,514	38,017	--	6,497
1981	219,237	149,592	--	69,645	170,779	111,058	59,721	48,458	38,534	--	9,924
1982	533,102	390,047	--	143,055	358,762	244,198	114,564	174,340	145,849	--	28,491
1983--											
1st qtr.	104,596	86,035	--	18,561	94,305	75,744	18,561	10,291	10,291	--	--
2d qtr.	106,859	78,958	--	27,901	79,999	52,098	27,901	26,860	26,860	--	--
3d qtr.	280,401	183,392	--	97,009	213,563	125,523	88,040	66,838	57,869	--	8,969
4th qtr.	207,384	148,635	--	58,749	147,551	94,211	53,340	59,833	54,424	--	5,409
1983 total	699,240	497,020	--	202,220	535,418	347,576	187,842	163,822	149,444	--	14,378
1984--											
1st qtr.	215,645	155,183	--	60,462	173,563	115,565	57,998	42,082	39,618	--	2,464
2d qtr.											
3d qtr.											
4th qtr.											
1984 total											

Source--U.S. Department of Commerce. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

Table 9--Value of softwood log exports from Washington and Oregon ports, by origin, species, and destination, 1973-84

(In thousand dollars)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO ALL COUNTRIES						
1973	694,602	209,417	15,451	469,734	449,902	120,796	329,106	244,700	88,621	15,451	140,628
1974	612,521	194,137	17,556	400,828	364,962	103,586	271,376	237,559	90,551	17,556	129,452
1975	603,854	202,377	16,758	384,759	376,706	111,919	264,787	227,148	90,418	16,758	119,972
1976	775,113	266,523	20,086	488,504	490,246	141,989	348,257	284,867	124,534	20,087	140,247
1977	826,698	311,269	17,049	498,380	526,412	171,541	354,871	300,286	139,728	17,049	143,509
1978	992,207	413,645	24,923	553,639	637,818	212,305	425,513	354,389	201,340	24,923	128,126
1979	1,408,036	624,090	24,419	831,527	991,513	331,874	659,639	488,523	292,216	24,419	171,188
1980	1,308,858	634,898	16,596	657,364	835,524	317,744	517,780	473,334	317,154	16,596	139,584
1981	882,942	476,653	24,911	381,378	565,564	266,847	298,717	317,378	209,806	24,911	82,661
1982	1,014,909	600,254	18,719	395,936	605,089	299,524	305,565	409,820	300,730	18,719	90,371
1983--											
1st qtr.	195,146	105,276	2,847	87,023	130,221	59,513	70,708	64,925	45,763	2,847	16,315
2d qtr.	209,168	117,059	1,905	90,204	138,401	64,817	73,584	70,767	52,242	1,905	16,620
3d qtr.	263,851	148,529	3,679	111,643	171,681	82,611	89,070	92,170	65,918	3,679	22,573
4th qtr.	224,271	129,314	2,576	92,381	140,215	65,370	74,845	84,056	63,944	2,576	17,536
1983 total	892,436	500,178	11,007	381,251	580,518	272,311	308,207	311,918	227,867	11,007	73,044
1984--											
1st qtr.	222,850	132,201	3,071	87,578	149,552	76,988	72,564	73,298	55,214	3,071	15,014
2d qtr.											
3d qtr.											
4th qtr.											
1984 total											
					TO JAPAN						
1973	664,363	201,944	15,451	446,968	422,715	115,022	307,693	241,648	86,922	15,451	139,275
1974	569,494	177,961	17,500	374,033	338,296	90,400	247,896	231,198	87,561	17,500	126,137
1975	560,754	195,469	16,758	348,527	341,885	107,149	234,736	218,869	88,320	16,758	113,791
1976	734,412	256,673	17,918	459,821	457,248	134,894	322,354	277,164	121,779	17,918	137,467
1977	776,630	303,248	17,049	456,333	484,006	164,626	319,380	292,624	138,622	17,049	136,953
1978	908,627	404,134	22,763	481,730	566,494	204,832	361,662	342,133	199,302	22,763	120,068
1979	1,387,602	612,160	22,271	753,171	910,338	323,034	587,304	477,264	289,126	22,271	165,867
1980	1,190,875	593,484	16,596	580,795	750,369	297,359	453,010	440,506	296,125	16,596	127,785
1981	740,943	404,395	24,889	311,659	451,171	213,444	237,727	289,772	190,951	24,889	73,932
1982	716,343	424,685	18,679	272,979	392,047	190,838	201,209	324,296	233,847	18,679	71,770
1983--											
1st qtr.	146,567	77,446	2,847	66,274	87,522	35,794	51,728	59,045	41,652	2,847	14,546
2d qtr.	152,519	88,469	1,905	62,145	91,862	44,781	47,081	60,657	43,688	1,905	15,064
3d qtr.	147,765	85,702	3,679	58,384	82,897	41,772	41,125	64,868	43,930	3,679	17,259
4th qtr.	136,197	79,554	2,576	54,067	73,844	34,324	39,520	62,353	45,230	2,576	14,547
1983 total	583,048	331,171	11,007	240,870	336,125	156,671	179,454	246,923	174,500	11,007	61,416
1984--											
1st qtr.	134,415	79,816	3,069	51,530	77,850	37,657	40,193	56,565	42,159	3,069	11,338
2d qtr.											
3d qtr.											
4th qtr.											
1984 total											

Table 3--Value of softwood log exports from Washington and Oregon ports, by origin, species, and destination, 1973-84 (continued)

(In thousand dollars)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO CANADA						
1973	9,593	2,900	--	6,693	9,593	2,900	6,693	--	--	--	--
1974	13,821	8,239	--	5,582	13,821	8,239	5,582	--	--	--	--
1975	8,313	2,937	--	5,376	8,313	2,937	5,376	--	--	--	--
1976	7,908	2,733	--	5,175	7,908	2,733	5,175	--	--	--	--
1977	3,545	2,154	--	1,391	3,545	2,154	1,391	--	--	--	--
1978	2,933	2,129	--	804	2,933	2,129	804	--	--	--	--
1979	7,223	2,435	--	4,788	7,223	2,435	4,788	--	--	--	--
1980	323	133	--	190	323	133	190	--	--	--	--
1981	463	173	--	290	463	173	290	--	--	--	--
1982	1,068	137	--	931	1,068	137	931	--	--	--	--
1983--											
1st qtr.	42	--	--	42	42	--	42	--	--	--	--
2d qtr.	734	55	--	679	734	55	679	--	--	--	--
3d qtr.	21	--	--	21	21	--	21	--	--	--	--
4th qtr.	249	--	--	249	249	--	249	--	--	--	--
1983 total	1,046	55	--	991	1,046	55	991	--	--	--	--
1984--											
1st qtr.	353	84	--	269	353	84	269	--	--	--	--
2d qtr.											
3d qtr.											
4th qtr.											
1984 total											
					TO SOUTH KOREA						
1973	18,506	3,468	--	15,038	17,290	2,725	14,565	1,216	743	--	473
1974	28,225	7,303	--	20,922	22,552	4,714	17,838	5,673	2,589	--	3,084
1975	14,757	2,688	--	12,069	7,912	1,648	6,264	6,845	1,040	--	5,805
1976	27,546	5,664	--	21,882	24,400	4,350	20,050	3,146	1,315	--	1,831
1977	44,949	4,811	--	40,138	38,738	4,672	34,066	6,211	139	--	6,072
1978	76,839	6,392	--	70,447	67,974	5,333	62,641	8,865	1,059	--	7,806
1979	80,173	6,982	--	73,191	73,751	6,378	67,373	6,422	604	--	5,818
1980	71,675	4,116	--	67,559	62,108	3,279	58,829	9,567	837	--	8,730
1981	47,481	4,027	--	43,454	43,048	3,513	39,535	4,433	514	--	3,919
1982	76,415	9,169	--	67,246	66,657	8,136	58,521	9,758	1,033	--	8,725
1983--											
1st qtr.	16,208	843	--	15,365	14,391	795	13,596	1,817	48	--	1,769
2d qtr.	22,775	3,224	--	19,551	21,177	3,159	18,018	1,598	65	--	1,533
3d qtr.	25,787	616	--	25,171	22,689	177	22,512	3,098	439	--	2,659
4th qtr.	20,006	798	--	19,208	18,450	499	17,951	1,556	299	--	1,257
1983 total	84,776	5,481	--	79,295	76,707	4,630	72,077	8,069	851	--	7,218
1984--											
1st qtr.	13,097	263	2	12,832	11,194	123	11,071	1,903	140	2	1,761
2d qtr.											
3d qtr.											
4th qtr.											
1984 total											
					TO MAINLAND CHINA						
1980	41,433	34,285	--	7,148	21,326	16,692	4,634	20,107	17,593	--	2,514
1981	88,000	63,977	--	24,023	67,639	47,363	20,276	20,361	16,614	--	3,747
1982	207,078	158,699	--	48,379	138,219	99,194	39,025	68,859	59,505	--	9,354
1983--											
1st qtr.	31,285	26,108	--	5,177	28,007	22,830	5,177	3,278	3,278	--	--
2d qtr.	32,554	24,756	--	7,798	24,254	16,456	7,798	8,300	8,300	--	--
3d qtr.	90,005	61,938	--	28,067	66,071	40,659	25,412	23,934	21,279	--	2,655
4th qtr.	66,614	48,814	--	17,800	46,650	30,504	16,146	19,964	18,310	--	1,654
1983 total	220,458	161,616	--	58,842	164,982	110,449	54,533	55,476	51,167	--	4,309
1984--											
1st qtr.	68,760	51,348	--	17,412	55,232	38,471	16,761	13,529	12,877	--	651
2d qtr.											
3d qtr.											
4th qtr.											
1984 total											

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

Note: Individual columns may not add to totals because of rounding.

Table 10--Average value of softwood logs exported from Washington and Oregon ports, by origin, species, and destination, 1973-84

(In dollars per thousand board feet, Scribner scale)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO ALL COUNTRIES						
1973	263.19	242.25	736.97	267.84	245.41	217.52	257.52	303.63	286.66	736.97	295.56
1974	279.77	271.33	1,004.29	275.22	263.40	255.84	266.40	310.21	291.51	1,004.29	295.76
1975	271.34	264.20	687.90	268.07	263.91	255.94	267.43	284.61	275.20	687.90	269.49
1976	283.19	281.84	755.83	276.80	273.43	268.98	275.29	301.73	298.10	755.83	280.61
1977	323.48	321.97	1,019.62	317.01	314.30	308.29	317.26	340.94	340.51	1,019.62	316.32
1978	348.46	363.08	1,017.56	328.84	332.89	342.70	328.21	380.48	387.37	1,017.56	330.94
1979	435.43	476.70	1,076.06	437.24	440.68	453.14	434.67	496.62	506.62	1,076.06	445.56
1980	497.32	503.00	1,349.27	484.32	491.73	492.57	491.22	507.50	513.91	1,349.27	460.31
1981	444.32	468.61	1,605.09	399.56	429.80	460.85	405.40	472.80	478.88	1,605.09	379.81
1982	395.27	420.40	1,656.70	350.88	378.94	410.40	352.46	422.12	430.85	1,656.70	345.51
1983--											
1st qtr.	337.92	344.61	1,450.33	322.27	324.62	328.76	321.22	368.17	367.65	1,450.33	326.88
2d qtr.	342.94	351.02	1,282.24	328.06	335.91	345.70	327.73	357.58	357.85	1,282.24	329.54
3d qtr.	346.10	356.66	1,201.21	325.63	333.37	345.42	322.92	372.58	371.82	1,201.21	336.74
4th qtr.	349.48	356.93	1,064.65	333.48	340.63	346.56	335.62	365.30	368.19	1,064.65	324.65
1983 average	344.37	352.81	1,232.31	327.29	333.67	341.97	326.67	366.21	366.69	1,232.31	329.93
1984--											
1st qtr.	341.78	352.33	1,273.02	319.16	332.46	346.52	318.74	362.50	360.76	1,273.02	321.22
2d qtr.											
3d qtr.											
4th qtr.											
1984 average											
					TO JAPAN						
1973	270.56	245.63	736.97	277.21	254.16	221.04	269.24	305.00	288.03	736.97	296.63
1974	288.27	278.84	1,009.12	283.36	273.34	264.41	276.74	313.31	295.48	1,009.12	297.32
1975	278.39	266.94	687.90	277.13	272.24	260.88	277.76	288.58	274.68	687.90	275.84
1976	288.34	284.59	729.17	283.74	281.72	274.48	284.86	299.97	296.69	729.17	281.15
1977	330.72	324.74	1,019.62	326.47	323.40	312.83	329.13	343.58	340.13	1,019.62	320.42
1978	360.30	366.21	997.76	345.20	347.49	347.38	347.55	383.71	387.82	997.76	338.30
1979	468.83	478.56	1,080.54	453.73	455.55	457.61	454.43	496.42	504.36	1,080.54	451.28
1980	507.98	504.92	1,349.27	502.15	504.11	493.35	511.36	514.71	516.98	1,349.27	472.01
1981	461.95	477.74	1,606.26	420.04	449.65	471.47	431.71	482.51	484.95	1,606.26	386.46
1982	412.12	428.70	1,657.12	370.75	394.85	417.00	375.91	435.13	438.75	1,657.12	357.02
1983--											
1st qtr.	358.19	361.88	1,450.33	343.01	346.50	348.73	344.98	377.05	374.01	1,450.33	336.18
2d qtr.	364.44	367.03	1,282.24	353.14	362.25	365.40	359.30	367.80	368.71	1,282.24	335.17
3d qtr.	369.05	371.93	1,201.21	349.79	362.04	369.99	354.32	378.41	373.81	1,201.21	339.47
4th qtr.	374.99	378.39	1,064.65	359.17	371.94	371.71	372.14	378.68R	383.62	1,064.65	328.09
1983 average	366.40	369.73	1,232.31	350.80	360.00	363.98	356.59	375.49	375.04	1,232.31	334.89
1984--											
1st qtr.	367.03	369.38	1,275.91	348.78	357.90	364.61	351.84	380.37	373.75	1,275.91	338.38
2d qtr.											
3d qtr.											
4th qtr.											
1984 average											

Table 10--Average value of softwood logs exported from Washington and Oregon ports, by origin, species, and destination, 1973-84 (continued)

(In dollars per thousand board feet, Scribner scale)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO CANADA						
1973	132.94	130.26	--	134.14	132.94	130.26	134.14	--	--	--	--
1974	187.62	210.93	--	161.31	187.62	210.93	161.31	--	--	--	--
1975	142.09	174.89	--	128.88	142.09	174.89	128.88	--	--	--	--
1976	163.76	184.62	--	154.54	163.76	184.62	154.54	--	--	--	--
1977	225.82	226.00	--	225.56	225.82	226.00	225.56	--	--	--	--
1978	232.08	227.43	--	245.35	232.08	227.43	245.35	--	--	--	--
1979	299.41	314.72	--	292.78	299.41	314.72	292.18	--	--	--	--
1980	327.92	336.71	--	322.03	327.92	336.71	322.03	--	--	--	--
1981	347.60	441.33	--	308.51	347.60	441.33	308.51	--	--	--	--
1982	224.51	215.75	--	225.86	224.51	215.75	225.86	--	--	--	--
1983--											
1st qtr.	346.55	--	--	346.55	346.55	--	346.55	--	--	--	--
2d qtr.	243.55	137.46	--	259.64	243.55	137.46	259.64	--	--	--	--
3d qtr.	412.10	--	--	412.10	412.10	--	412.10	--	--	--	--
4th qtr.	122.32	--	--	122.32	122.32	--	122.32	--	--	--	--
1983 average	200.35	138.54	--	205.44	200.35	137.46	205.44	--	--	--	--
1984--											
1st qtr.	88.68	85.07	--	89.88	88.68	85.07	89.88	--	--	--	--
2d qtr.											
3d qtr.											
4th qtr.											
1984 average											
					TO SOUTH KOREA						
1973	181.54	228.47	--	173.34	178.83	225.89	172.12	231.52	238.47	--	221.40
1974	205.03	201.12	--	206.43	202.12	201.62	202.26	217.47	200.23	--	234.41
1975	186.74	192.74	--	185.46	187.93	181.10	189.82	185.39	214.61	--	180.98
1976	211.78	214.11	--	211.19	208.53	206.47	208.93	240.77	244.77	--	238.54
1977	239.13	226.92	--	240.68	238.75	228.82	240.18	241.53	177.52	--	243.54
1978	249.59	257.28	--	249.02	250.01	261.09	249.11	246.40	239.70	--	247.34
1979	326.82	343.23	--	325.33	324.79	341.93	323.26	352.05	357.61	--	351.48
1980	374.50	348.93	--	376.18	378.74	343.39	380.92	349.17	372.50	--	347.09
1981	321.18	368.81	--	317.38	324.46	376.41	320.53	292.45	324.29	--	288.76
1982	299.98	329.71	--	296.33	302.81	341.26	298.14	281.94	260.32	--	284.74
1983--											
1st qtr.	269.84	330.54	--	267.15	270.36	337.14	267.26	265.85	250.01	--	266.31
2d qtr.	284.75	278.24	--	285.85	284.80	276.99	286.22	284.04	357.48	--	281.60
3d qtr.	317.84	274.32	--	319.08	313.41	241.77	314.13	354.58	290.00	--	368.13R
4th qtr.	310.38	265.82	--	312.56	310.68	261.18	312.33	306.85	273.93	--	315.89
1983 average	296.80	282.70	--	297.82	295.74	282.21	296.66	307.16	285.38	--	309.95
1984--											
1st qtr.	291.55	306.77	281.14	291.26	294.59	362.96	293.97	274.91	270.10	281.14	275.29
2d qtr.											
3d qtr.											
4th qtr.											
1984 average											
					TO MAINLAND CHINA						
1980	471.98	490.48	--	399.69	492.85	523.52	406.96	451.70	462.77	--	386.95
1981	401.39	427.68	--	344.94	396.06	426.47	339.51	420.18	431.15	--	377.57
1982	388.44	406.87	--	338.18	385.27	406.20	340.64	394.97	407.99	--	328.31
1983--											
1st qtr.	299.10	303.46	--	278.91	296.98	301.41	278.91	318.50	318.50	--	--
2d qtr.	304.65	313.54	--	279.48	303.18	315.87	279.48	309.02	309.02	--	--
3d qtr.	320.99	337.73	--	289.32	309.37	323.92	288.64	358.09	367.71	--	296.02
4th qtr.	321.22	328.42	--	303.00	316.16	323.78R	302.71	333.67	336.44	--	305.84
1983 average	315.28	325.17	--	290.98	308.14	317.77	290.31	338.64	342.38	--	299.69
1984--											
1st qtr.	318.86	330.89	--	287.98	318.22	332.89	288.99	321.48	325.04	--	264.26
2d qtr.											
3d qtr.											
4th qtr.											
1984 average											

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

R = revised.

Table 11--Softwood log exports from northern California ports, by species and destination, 1973-84[1]

(In thousand board feet, Scribner scale)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
		TO ALL COUNTRIES		
1973	104,733	34,454	4,065	66,214
1974	77,735	35,146	8,823	33,766
1975	86,943	52,547	2,483	31,913
1976	109,812	73,924	2,508	33,380
1977	70,902	38,302	2,331	30,269
1978	72,650	49,024	2,880	20,746
1979	65,492	37,551	1,611	26,330
1980	31,672	7,287	653	23,732
1981	25,586	5,890	1,381	18,315
1982	19,507	12,609	6	6,892
1983--				
1st quarter	9,263	2,675	300	6,288
2d quarter	4,414	951	--	3,463
3d quarter	8,401	2	--	8,399
4th quarter	11,441	15	--	11,426
1983 total	33,519	3,643	300	29,576
1984--				
1st quarter	11,858	6,075	488	5,295
2d quarter				
3d quarter				
4th quarter				
1984 total	11,858	6,075	488	5,295
		TO JAPAN		
1973	94,520	29,261	4,065	61,194
1974	69,271	32,485	8,823	27,963
1975	78,813	48,188	2,483	28,142
1976	96,485	69,395	2,853	24,237
1977	57,815	37,765	2,331	17,719
1978	58,760	48,653	1,757	8,350
1979	57,938	37,411	1,611	18,916
1980	27,180	7,055	653	19,472
1981	20,708	1,024	1,381	18,303
1982	9,022	3,270	6	5,746
1983--				
1st quarter	9,261	2,675	300	6,286
2d quarter	4,414	951	--	3,463
3d quarter	3,899	--	--	3,899
4th quarter	6,734	--	--	6,734
1983 total	24,308	3,626	300	20,382
1984--				
1st quarter	5,774	1,950	488	3,336
2d quarter				
3d quarter				
4th quarter				
1984 total				
		TO MAINLAND CHINA		
1982	9,292	9,282	--	10
1983--				
1st quarter	2	--	--	2
2d quarter	--	--	--	--
3d quarter	4,500	--	--	4,500
4th quarter	3,800	--	--	3,800
1983 total	8,302	--	--	8,302
1984--				
1st quarter	3,500	3,500	--	--
2d quarter				
3d quarter				
4th quarter				
1984 total				

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Northern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

Table 12--Softwood log exports by State and port, Washington, Oregon, and northern California, 1973-84

(In million board feet, Scribner scale)

YEAR AND QUARTER	STATE OF WASHINGTON[1]									
	ABERDEEN	ANACORTES, BELLINGHAM	EVERETT	LONGVIEW	OLYMPIA	PORT ANGELES	TACOMA	NORTHEASTERN WASHINGTON	OTHER	TOTAL
1973	491.5	84.5	250.4	328.7	86.9	306.0	511.1	0	54.6	2,113.7
1974	396.2	49.2	217.7	300.2	61.5	273.5	383.0	--	48.4	1,729.7
1975	366.8	32.2	230.0	261.3	48.6	284.7	469.2	--	32.9	1,725.7
1976	502.1	30.5	277.2	397.4	7.5	324.5	623.7	0	28.5	2,191.4
1977	402.1	42.1	237.7	328.2	68.7	304.6	607.6	--	12.0	2,003.0
1978	512.2	41.1	321.8	325.8	87.1	387.2	559.7	--	7.0	2,241.0
1979	648.7	50.9	332.8	366.1	101.0	505.0	601.7	--	9.9	2,616.1
1980	498.2	38.0	287.3	387.0	80.2	295.1	497.1	.1	3.1	2,086.1
1981	414.3	16.7	208.4	215.9	47.3	168.0	446.2	.1	14.9	1531.8
1982	552.3	11.0	310.3	374.5	62.6	152.6	494.1	--	13.9	1,971.3
1983--										
1st quarter	154.0	.2	61.0	67.8	12.3	47.0	126.4	--	.2	468.9
2d quarter	151.5	--	65.4	85.4	12.4	46.9	135.6	0	.2	497.4
3d quarter	200.8	.9	94.7	83.3	10.3	55.3	152.8	--	.1	598.2
4th quarter	151.8	5.6	71.4	81.8	5.4	51.4	125.9	0	.1	493.4
1983 total	658.1	6.7	292.5	318.3	40.4	200.6	540.7	--	.6	2057.9
1984--										
1st quarter	151.6	7.7	72.9	85.8	23.2	62.2	131.0	0	1.3	535.7
2d quarter										
3d quarter										
4th quarter										
1984 total										

YEAR AND QUARTER	STATE OF OREGON[1]					NORTHERN CALIFORNIA[2]				
	ASTORIA	COOS BAY	PORTLAND	OTHER	TOTAL	EUREKA	SACRAMENTO	STOCKTON	OTHER	TOTAL
1973	147.1	155.5	159.8	21.3	483.7	79.6	16.2	8.7	.2	140.7
1974	159.0	128.1	139.8	24.8	451.7	67.5	9.8	3.8	.2	81.3
1975	245.7	134.1	137.5	44.5	561.8	66.6	19.9	0	1.4	87.9
1976	273.3	144.6	99.5	28.0	545.4	83.7	26.1	0	--	109.8
1977	210.2	120.1	207.0	15.4	552.7	39.2	25.5	0	6.3	71.0
1978	168.4	145.1	277.0	15.0	605.5	46.1	18.4	--	8.2	72.7
1979	150.1	128.2	322.0	17.2	617.5	43.0	6.0	0	16.5	65.6
1980	134.7	135.2	275.8	0	545.7	14.9	3.9	.5	12.3	31.6
1981	73.3	113.8	268.2	0	455.3	6.6	13.3	0	5.6	25.5
1982	93.3	191.1	309.5	2.3	596.2	16.0	.7	0	1.2	17.9
1983--										
1st quarter	17.1	38.6	52.9	0	108.6	3.0	6.3	0	0	9.3
2d quarter	15.4	31.5	65.6	0	112.5	4.4	0	0	--	4.4
3d quarter	17.2	37.8	108.0	1.1	164.1	5.8	2.6	0	--	8.4
4th quarter	19.3	45.6	83.4	0	148.3	3.9	7.4	0	.1	11.4
1983 total	69.0	153.5	309.9	1.1	533.5	17.1	16.3	0	.1	33.5
1984--										
1st quarter	11.2	54.2	51.0	0	116.4	8.9	3.0	0	--	11.9
2d quarter										
3d quarter										
4th quarter										
1984 total										

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

Note: Individual columns may not add to totals because of rounding.

[1]State totals as presented here for Washington and Oregon do not agree with those in table 8 because customs districts as used in table 8 do not correspond to State boundaries.

[2]Northern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

Table 13--Average value of softwood log exports by State and port, Washington, Oregon, and northern California, 1973-84

(In dollars per thousand board feet, Scribner scale)

YEAR AND QUARTER	STATE OF WASHINGTON[1]									
	ABERDEEN	ANACORTES, BELLINGHAM	EVERETT	LONGVIEW	OLYMPIA	PORT ANGELES	TACOMA	NORTHEASTERN WASHINGTON	OTHER	AVERAGE
1973	264.23	211.35	258.69	288.82	284.15	215.32	262.90	0	229.45	257.80
1974	266.16	261.07	257.85	292.13	282.38	246.79	274.24	--	262.10	268.58
1975	256.17	297.84	273.29	280.90	273.90	253.46	266.63	--	279.01	266.30
1976	269.90	293.96	287.08	302.53	302.53	261.25	277.21	0	252.97	277.26
1977	311.97	296.28	309.82	336.01	331.68	294.59	327.76	--	263.80	317.86
1978	332.92	295.77	334.87	379.57	347.93	319.97	340.91	--	344.67	339.68
1979	452.52	376.18	455.44	518.19	499.12	424.46	428.19	--	492.38	451.64
1980	490.53	414.44	473.47	506.59	510.63	472.08	523.11	280.95	538.84	495.76
1981	394.52	461.88	41?	[illegible]	[illegible]	396.82	473.08	307.74	3.06	428.32
1982	354.51	374.42	366.86	420.02	358.61	362.47	429.08	--	372.14	388.57
1983--										
1st quarter	303.16	333.33	330.21	356.07	409.69	352.28	329.46	371.54	371.31	329.36
2d quarter	312.44	--	334.46	356.59	457.21	325.38	354.57	0	876.79	339.46
3d quarter	316.65	497.76	352.59	355.10	405.86	324.84	340.57	590.21	416.59	336.40
4th quarter	324.25	343.91	358.44	374.72	278.90	343.10	351.42	0	334.42	346.28
1983 average	314.28	364.25	345.30	361.03	405.78	336.07	344.01	442.46	623.79	337.90
1984--										
1st quarter	319.92	270.48	345.23	373.38	321.18	331.62	346.24	0	298.73	339.02
2d quarter										
3d quarter										
4th quarter										
1984 average										

YEAR AND QUARTER	STATE OF OREGON[1]					NORTHERN CALIFORNIA[2]				
	ASTORIA	COOS BAY	PORTLAND	OTHER	AVERAGE	EUREKA	SACRAMENTO	STOCKTON	OTHER	AVERAGE
1973	321.16	348.95	289.64	257.16	316.88	219.99	226.77	296.78	363.54	227.72
1974	300.21	363.95	302.18	291.33	318.41	295.56	317.05	328.16	252.62	299.55
1975	236.89	349.97	316.25	271.48	286.03	256.07	368.11	0	452.10	284.62
1976	267.63	372.46	337.44	253.76	307.45	292.15	367.73	0	--	312.31
1977	338.29	409.01	328.22	318.00	349.32	333.34	337.06	0	338.45	335.14
1978	325.32	512.44	366.77	330.78	389.23	353.99	362.18	--	372.07	358.09
1979	461.34	592.98	455.51	381.59	483.38	336.29	393.19	0	447.84	369.65
1980	452.99	604.08	488.22	0	508.23	462.98	485.28	379.65	535.17	492.37
1981	340.14	635.05	448.55	0	477.76	537.93	492.22	0	422.02	488.61
1982	325.14	501.04	404.96	420.00	423.35	334.72	279.64	0	469.52	342.13
1983--										
1st quarter	296.53	434.13	357.26	0	375.04	424.42	378.55	0	0	396.64
2d quarter	280.88	392.41	358.59	0	357.45	251.83	0	0	--	254.78
3d quarter	321.86	427.56	375.45	320.00	381.45	305.82	424.66	0	553.00	342.70
4th quarter	309.29	393.86	353.46	0	360.10	320.06	344.67	0	866.02	340.36
1983 average	302.95	411.99	362.85	320.00	369.15	315.41	370.37	0	1,028.53	345.23
1984--										
1st quarter	294.17	361.57	360.14	0	354.48	434.29	517.85	0	375.00	454.99
2d quarter										
3d quarter										
4th quarter										
1984 average										

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]State averages as presented here for Washington and Oregon do not agree with those in table 10 because customs districts as used in table 10 do not correspond to State boundaries.

[2]Northern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

Table 14--Volume and average value of softwood log exports from Alaska ports by destination, 1973-84

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

YEAR AND QUARTER	VOLUME	AVERAGE VALUE
	TO ALL COUNTRIES	
1973	71,719	248.23
1974	34,949	240.82
1975	29,011	307.97
1976	26,197	224.59
1977	52,377	263.54
1978	68,025	320.45
1979	128,597	470.97
1980	160,523	532.56
1981	149,187	480.54
1982	241,123	478.49
1983--		
1st quarter	33,522	404.75
2d quarter	63,788	440.78
3d quarter	102,655	430.70
4th quarter	62,254	412.64
1983 total and average value	262,219	425.55
1984--		
1st quarter	49,178	386.93
2d quarter		
3d quarter		
4th quarter		
1984 total and average value		
	TO JAPAN	
1973	71,705	248.24
1974	29,088	252.71
1975	24,311	352.29
1976	20,741	253.18
1977	46,897	278.99
1978	57,653	343.49
1979	120,753	475.21
1980	156,275	533.22
1981	141,209	491.44
1982	219,700	486.71
1983--		
1st quarter	28,469	421.84
2d quarter	56,182	462.00
3d quarter	79,058	463.03
4th quarter	47,996	442.65
1983 total and average value	211,705	452.60
1984--		
1st quarter	34,581	430.66
2d quarter		
3d quarter		
4th quarter		
1984 total and average value		
	TO MAINLAND CHINA	
1981	3,205	377.57
1982	0	--
1983--		
1st quarter	0	--
2d quarter	0	--
3d quarter	7,275	293.94
4th quarter	8,316	314.98
1983 total and average value	15,591	305.16
1984--		
1st quarter	0	--
2d quarter		
3d quarter		
4th quarter		
1984 total and average value		

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Data are compiled from Department of Commerce records at the end of each quarter.

Table 15--Volume and value of hardwood log exports from ports of Washington, Oregon, Alaska, and northern California, 1973-84

(Volume in thousand board feet, Scribner scale; value in dollars)

YEAR AND QUARTER	WASHINGTON CUSTOMS DISTRICT		OREGON CUSTOMS DISTRICT		ALASKA CUSTOMS DISTRICT		SAN FRANCISCO CUSTOMS DISTRICT	
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
TO ALL COUNTRIES								
1973	1,812	1,351,759	36	57,747	0	--	1,084	2,330,761
1974	633	1,121,192	45	95,342	0	--	560	1,515,476
1975	1,599	637,455	73	103,519	0	--	3,911	780,853
1976	3,750	1,646,972	236	136,188	0	--	659	1,239,777
1977	2,735	2,117,386	189	87,839	0	—	1,396	2,751,996
1978	2,362	2,190,449	75	91,486	11	19,250	1,772	4,088,466
1979	2,597	2,216,256	341	420,741	138	253,716	1,272	3,049,981
1980	6,826	5,153,711	2,026	764,511	186	44,960	900	2,260,961
1981	3,416	3,173,191	439	470,373	0	--	683	1,422,547
1982	3,788	2,894,801	335	217,463	0	--	623	1,364,227
1983--								
1st quarter	1,926	1,000,110	34	60,676	0	--	32	73,503
2d quarter	719	486,610	7	9,100	0	--	20	16,787
3d quarter	477	422,808	222	73,327	0	—	166	126,392
4th quarter	1,320	720,183	111	27,750	0	--	23	11,625
1983 total	4,442	2,629,711	374	170,853	0	--	241	228,307
1984--								
1st quarter	728	999,977	102	163,820	0	--	94	200,418
2d quarter								
3d quarter								
4th quarter								
1984 total								
TO JAPAN								
1973	993	1,164,704	34	56,842	0	--	1,015	2,250,213
1974	540	1,063,245	37	84,293	0	--	485	1,093,502
1975	1,210	562,583	14	9,039	0	—	3,803	636,796
1976	3,313	1,416,317	235	134,988	0	--	456	1,005,649
1977	1,444	1,179,616	17	33,347	0	—	1,063	2,300,667
1978	1,178	819,332	57	84,025	0	--	1,248	3,059,204
1979	1,824	1,153,644	300	359,119	74	188,389	1,059	2,339,089
1980	4,786	1,969,245	1,964	726,891	182	42,200	579	1,532,496
1981	2,037	2,162,473	229	264,161	0	--	310	742,998
1982	1,465	1,212,079	35	64,504	0	--	417	911,992
1983--								
1st quarter	529	495,749	22	22,516	0	--	32	73,503
2d quarter	174	176,659	7	9,100	0	--	20	16,787
3d quarter	296	153,970	100	25,000	0	--	9	8,960
4th quarter	257	92,030	100	25,000	0	--	0	--
1983 total	1,256	918,408	229	81,616	0	--	61	99,250
1984--								
1st quarter	223	169,355	54	51,735	0	--	57	104,040
2d quarter								
3d quarter								
4th quarter								
1984 total								
TO MAINLAND CHINA								
1980	D	2,800	0	--	D	--	--	--
1981	0	--	0	--	0	--	0	--
1982	45	45,000	0	--	0	--	0	--
1983--								
1st quarter	0	--	0	--	0	--	0	--
2d quarter	0	--	0	--	0	--	0	--
3d quarter	0	--	100	22,500	0	--	0	--
4th quarter	0	--	0	--	0	--	0	--
1983 total	0	--	100	22,500	0	--	0	--
1984--								
1st quarter	0	--	0	--	0	--	0	--
2d quarter								
3d quarter								
4th quarter								
1984 total								

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Data are compiled from Department of Commerce records at the end of each quarter. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Alaska Customs District is the State of Alaska. San Francisco Customs District includes Monterey and all ports north of Monterey, California.

Table 16--Log exports from southern California ports, by species, 1973-84

(In thousand board feet, Scribner scale)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	HARDWOODS
1973	445	214	5	226
1974	378	32	130	216
1975	288	11	224	53
1976	2,396	1,411	670	315
1977	1,360	169	411	780
1978	1,721	172	917	632
1979	2,117	290	359	1,468
1980	1,149	295	610	244
1981	738	88	186	464
1982	797	281	211	305
1983--				
1st quarter	20	0	0	20
2d quarter	93	0	22	71
3d quarter	330	0	0	330
4th quarter	231	0	9	222
1983 total	674	0	31	643
1984--				
1st quarter	497	4	0	493
2d quarter				
3d quarter				
4th quarter				
1984 total				

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter. Revisions which may have been made after this time are not shown. Southern California consists of the San Diego and Los Angeles Customs Districts and includes all ports south of Monterey, California.

Table 17--Volume and average value of softwood log exports to Canada from the Montana Customs District, 1973-84[1/]

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

YEAR AND QUARTER	ALL SPECIES		DOUGLAS-FIR		OTHER SOFTWOODS	
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
1973	379	177.58	93	261.16	286	150.40
1974	925	178.24	19	149.05	906	178.86
1975	739	226.93	72	274.78	667	221.76
1976	571	228.43	103	254.08	468	222.78
1977	1,227	247.66	467	251.10	760	245.54
1978	901	226.05	136	367.43	765	200.91
1979	3,906	168.47	0	--	3,906	168.47
1980	699	239.88	36	303.53	663	236.42
1981	477	362.68	123	475.06	354	323.64
1982	418	285.81	16	203.81	402	289.07
1983--						
1st quarter	63	310.65	0	--	63	310.65
2d quarter	317	254.09	0	--	317	254.09
3d quarter	111	284.59	11	460.64	100	265.23
4th quarter	134	242.75	0	--	134	242.75
1983 total and average value	625	262.78	0	--	614	259.23
1984--						
1st quarter	322	260.77	0	--	322	260..77
2d quarter						
3d quarter						
4th quarter						
1984 total and average value						

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Montana Customs District includes all ports in Montana and Idaho.

Table 18--Log exports from British Columbia ports, by species and destination, 1973-84[1/]

(In thousand board feet, British Columbia log scale)

YEAR AND QUARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOODS
			TO ALL COUNTRIES				
1973	35,716	1,852	9,750	7,441	13,647	1,211	1,815
1974	148,801	11,790	31,528	67,843	27,355	4,973	5,312
1975	85,082	2,406	18,914	19,373	41,416	1,505	2,188
1976	116,193	5,390	39,069	21,901	41,959	3,346	4,528
1977	186,511	10,085	118,085	36,048	19,835	754	1,704
1978	128,853	8,592	24,467	45,143	49,767	530	354
1979	169,107	2,431	56,504	56,954	43,201	4,135	5,882
1980	231,784	8,907	106,193	49,590	36,756	12,155	18,183
1981	184,481	856	98,579	24,616	37,774	18,943	3,713
1982	252,892	48,192	75,731	38,005	40,446	37,087	13,431
1983--							
1st quarter	135,436R	44,710	41,072	4,176	17,097	17,360	11,021
2d quarter	107,628	30,266	27,731	3,065	12,059	7,811	26,696
3d quarter	113,857	16,712	53,585	3,550	15,890	14,808	9,312
4th quarter	124,456	32,801	56,749	11,774	9,854	12,700	578
1983 total	481,377	124,489	179,137	22,565	54,900	52,679	47,607
1984--							
1st quarter	195,430	33,954	75,034	13,885	13,001	12,572	46,984
2d quarter							
3d quarter							
4th quarter							
1984 total							
			TO JAPAN				
1973	29,239	1,293	8,058	6,205	13,284	399	0
1974	80,655	2,167	22,968	31,915	16,503	2,304	4,798
1975	61,728	1,460	10,477	7,696	39,470	1,253	1,372
1976	67,192	792	17,026	7,343	39,905	470	1,656
1977	109,301	5,106	65,092	23,413	15,489	201	0
1978	90,001	4,094	16,890	24,038	44,814	99	66
1979	120,297	1,894	49,281	27,597	35,883	3,636	2,056
1980	154,824	1,692	61,500	35,346	36,157	6,939	13,190
1981	131,321	698	71,645	17,427	31,541	10,010	0
1982	130,457	8,205	51,603	23,459	29,806	16,758	626
1983--							
1st quarter	72,481	15,996	35,674	4,346	11,558	4,907	0
2d quarter	40,003	10,139	10,968	3,062	9,547	6,258	29
3d quarter	57,843	10,011	29,757	3,275	10,718	4,082	0
4th quarter	70,884	19,120	27,242	9,637	8,174	6,469	242
1983 total	241,211	55,266	103,641	20,320	39,997	21,716	271
1984--	82,920	21,667	30,097	12,520	9,846	8,756	34
1st quarter							
2d quarter							
3d quarter							
4th quarter							
1984 total							

Table 18--Log exports from British Columbia ports, by species and destination, 1973-84[1/] (continued)

(In thousand board feet, British Columbia log scale)

YEAR AND QUARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOODS
			TO UNITED STATES				
1973	6,471	559	1,692	1,236	363	812	1,809
1974	68,146	9,623	8,560	35,928	10,852	2,669	514
1975	23,354	946	7,717	11,677	1,946	252	816
1976	48,911	4,598	22,043	14,558	1,964	2,876	2,872
1977	74,442	4,979	50,817	12,043	4,346	553	1,704
1978	32,843	4,498	6,039	19,144	2,443	431	288
1979	48,810	537	7,223	29,357	7,368	499	3,826
1980	76,955	7,215	44,693	14,244	594	5,216	4,993
1981	50,324	158	26,934	7,189	4,340	8,879	2,824
1982	63,900	1,524	23,241	10,705	5,695	20,044	2,691
1983--							
1st quarter	20,371	2,790	5,398	370	2,443	7,562	1,808
2d quarter	23,402	1,441	16,763	0	2,512	1,553	1,133
3d quarter	42,673	2,672	23,828	275	5,172	10,726	0
4th quarter	26,059	4,407	13,451	316	1,650	5,808	427
1983 total	112,505	11,310	59,440	961	11,777	25,649	3,368
1984--	19,704	2,532	14,301	81	255	713	1,822
1st quarter							
2d quarter							
3d quarter							
4th quarter							
1984 total							
			TO MAINLAND CHINA				
1982	46,689	38,463	0	0	3,787	0	8,911
1983--							
1st quarter	43,124	25,924	0	0	3,096	4,891	9,213
2d quarter	44,220	18,686	0	0	0	0	25,534
3d quarter	4,029	4,029	0	0	0	0	0
4th quarter	18,981	9,274	0	0	0	395	9,312
1983 total	110,354	57,913	0	0	3,096	5,286	44,059
1984--							
1st quarter	85,499	9,755	25,710	0	2,900	3,075	44,059
2d quarter							
3d quarter							
4th quarter							
1984 total							

Source--Bureau of Economics and Statistics, Department of Industrial Development, Trade, and Commerce, Victoria, B.C., "Preliminary Statement of External Trade."

[1]Figures do not include shipments of pulpwood logs.

Table 19--Volume and average value of softwood log imports of all species from Canada into Washington and Oregon, 1973-84

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

YEAR AND QUARTER	VOLUME	AVERAGE VALUE
1973	2,102	124.71
1974	31,625	248.69
1975	55,494	207.13
1976	44,438	122.62
1977	91,962	194.93
1978	41,307	271.29
1979	75,855	298.89
1980	51,828	233.08
1981	33,985	319.77
1982	59,492	313.27
1983--		
1st quarter	27,366	255.60
2d quarter	9,803	161.82
3d quarter	21,593	214.60
4th quarter	17,912	227.86
1983 total and average value	76,674	225.58
1984--		
1st quarter	14,150	190.01
2d quarter		
3d quarter		
4th quarter		
1984 total and average value		

Source--U.S. Department of Commerce. Value is declared value at port of entry. Data are compiled from Department of Commerce records at the end of each quarter.

Table 20--Volume and average value of pulpwood imports from Canada into the Washington Customs District, 1973-84

YEAR AND QUARTER	CHIPPED PULPWOOD		ROUNDWOOD PULPWOOD	
	VOLUME	VALUE	VOLUME	VALUE
	Short tons	Dollars	Cords	Dollars
1973	1,085,124	11.19	16	97.06
1974	623,830	15.55	31,998	60.08
1975	493,761	23.36	11,517	42.90
1976	877,550	20.98	1,967	32.14
1977	1,056,102	18.59	16,674	91.19
1978	1,215,483	16.37	0	--
1979	1,039,458	17.19	0	--
1980	1,185,701	26.77	57,337	66.64
1981	1,160,507	32.33	23,084	130.11
1982	1,247,813	32.15	8,320	139.24
1983--				
1st quarter	337,359	26.69	0	--
2d quarter	371,580	23.22	0	--
3d quarter	394,400	23.86R	0	--
4th quarter	324,151	23.69	0	--
1983 total and average value	1,427,490	24.32	0	--
1984--				
1st quarter	567,891	21.95	0	--
2d quarter				
3d quarter				
4th quarter				
1984 total and average value				

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

R = revised.

Table 21--Volume and average value of chips exported from the Washington, Oregon, San Francisco, and Alaska Customs Districts, 1973-84

(In short tons, ovendried basis; average value in dollars per short ton)

YEAR AND QUARTER	WASHINGTON CUSTOMS DISTRICT		OREGON CUSTOMS DISTRICT		SAN FRANCISCO CUSTOMS DISTRICT		ALASKA CUSTOMS DISTRICT	
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
1973	272,196	21.84	2,778,829	24.85	369,403	24.41	0	--
1974	390,370	28.62	3,177,465	26.50	242,017	30.69	34,828	28.99
1975	326,083	38.56	2,436,807	34.74	257,735	28.96	32,399	48.51
1976	457,801	33.39	2,881,577	39.90	366,678	34.76	107,652	37.89
1977	281,540	49.17	2,892,333	43.33	519,444	42.91	107,429	51.67
1978	299,140	46.16	2,650,423	42.98	412,107	40.82	31,827	37.20
1979	346,209	50.05	3,125,103	42.55	603,989	44.69	83,706	48.62
1980	268,103	79.53	2,849,927	88.44	728,459	85.81	151,328	75.57
1981	296,461	80.74	2,076,612	85.51	321,533	89.89	77,649	73.61
1982	328,374	79.27	1,914,439	83.31	196,292	83.36	74,164	68.98
1983--								
1st quarter	69,722	75.40	400,690	70.19	57,310	67.87	6,645	34.67
2d quarter	64,243	74.74	441,218	70.65	116,439	67.39	0	--
3d quarter	77,917	74.34	438,092	66.44	83,760	64.63	0	--
4th quarter	36,053	70.86	388,971	65.22	93,078	67.44	0	--
1983 total and average value	247,935	74.24	1,668,971	68.17	350,587	66.82	6,645	34.67
1984--								
1st quarter	58,862	77.03	392,085	64.65	62,575	64.09	11,609	28.53
2d quarter								
3d quarter								
4th quarter								
1984 total and average value								

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Washington Customs District includes all ports in the State of Washington, except Longview and Vancouver. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. San Francisco Customs District includes all coastal and inland ports in the State of California from Monterey north. The Alaska Customs District is the State of Alaska.

Table 22--Softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/]

(In thousand board feet)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS
					TO ALL COUNTRIES							
1973	799,631	532,321	169,927	97,383	324,740	143,666	104,851	76,223	474,891	388,655	65,076	21,160
1974	719,729	496,978	124,047	98,704	331,818	174,056	79,399	78,363	387,911	322,922	44,648	20,341
1975	616,883	415,152	125,529	76,202	263,754	151,681	52,064	60,009	353,129	263,471	73,465	16,193
1976	698,941	478,100	145,645	75,196	311,599	155,041	94,581	61,977	387,342	323,059	51,064	13,219
1977	549,059	372,609	125,479	50,971	256,703	123,783	92,364	40,556	292,356	248,826	33,115	10,415
1978	585,588	374,032	135,156	76,400	310,100	128,895	118,094	63,111	275,488	245,137	17,062	13,289
1979	839,895	427,063	280,067	132,765	413,673	98,685	211,030	103,858	426,322	328,378	69,031	28,907
1980	984,882	449,123	338,487	197,272	521,728	106,671	270,706	144,351	463,154	342,452	67,781	52,921
1981	933,739	451,075	268,024	214,640	467,886	139,070	173,000	155,816	465,853	312,005	95,024	58,824
1982	888,401	419,263	306,901	162,237	472,956	117,049	237,174	118,733	415,445	302,214	69,727	43,504
1983--												
1st quarter	249,498	124,545	72,467	52,486	136,719	32,870	56,501	47,348	112,779	91,675	15,966	5,138
2d quarter	299,636	156,898	80,312	62,426	161,445	49,765	64,356	47,324	138,191	107,133	15,956	15,102
3d quarter	225,602	108,196	65,651	51,755	123,617	32,142	49,362	42,113	101,985	76,054	16,289	9,642
4th quarter	247,319	123,340	76,979	47,000	130,896	37,517	53,073	40,306	116,423	85,823	23,906	6,694
1983 total	1,022,055	512,979	295,409	213,667	552,677	152,294	223,292	177,091	469,378	360,685	72,117	36,576
1984--												
1st quarter	235,251	128,283	62,634	44,334	104,766	32,797	37,203	34,766	130,485	95,486	25,431	9,568
2d quarter												
3d quarter												
4th quarter												
1984 total												
					TO JAPAN							
1973	153,537	40,402	99,707	13,428	89,514	19,247	64,966	5,301	64,023	21,155	34,741	8,127
1974	205,888	102,858	77,973	25,057	103,531	44,424	47,616	11,491	102,357	58,434	30,357	13,566
1975	208,160	96,307	96,610	15,243	89,489	40,991	45,359	3,139	118,671	55,316	51,251	12,104
1976	186,628	68,927	107,884	9,817	127,553	39,430	80,891	7,232	59,075	29,497	26,993	2,585
1977	145,386	40,945	93,719	10,722	108,468	20,845	80,161	7,462	36,918	20,100	13,558	3,260
1978	163,233	36,429	108,610	18,194	141,963	25,609	103,056	13,289	21,270	10,820	5,554	4,896
1979	355,840	75,567	227,702	52,571	258,444	45,549	177,239	35,656	97,396	30,018	50,463	16,915
1980	362,458	53,084	249,729	59,645	269,406	26,428	199,237	43,741	93,052	26,656	50,492	15,904
1981	312,232	55,479	206,837	49,916	189,547	25,966	128,307	35,274	122,685	29,513	78,530	14,642
1982	414,221	94,161	260,844	59,216	283,500	41,819	201,775	39,906	130,721	52,342	59,069	19,310
1983--												
1st quarter	111,529	28,259	62,186	21,084	77,376	10,277	47,871	19,228	34,153	17,982	14,315	1,856
2d quarter	116,414	29,497	67,962	18,955	86,712	16,280	54,250	16,182	29,702	13,217	13,712	2,773
3d quarter	97,726	21,793	56,121	19,812	67,882	11,321	41,471	15,090	29,844	10,472	14,650	4,722
4th quarter	122,373	34,320	68,255	19,798	83,780	19,924	47,560	16,296	38,593	14,396	20,695	3,502
1983 total	448,042	113,869	254,524	79,649	315,750	57,802	191,152	66,796	132,292	56,067	63,372	12,853
1984--												
1st quarter	106,363	28,123	56,640	21,600	64,431	15,971	32,261	16,199	41,932	12,152	24,379	5,401
2d quarter												
3d quarter												
4th quarter												
1984 total												

Table 22--Softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/] (continued)

(In thousand board feet)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS
					TO CANADA							
1973	88,695	49,381	9,340	29,974	88,695	49,381	9,340	29,974	0	0	0	0
1974	126,547	67,856	5,952	52,739	124,097	65,406	5,952	52,739	2,795	2,763	0	32
1975	113,213	61,099	4,299	47,815	112,783	61,099	3,869	47,815	0	0	0	0
1976	101,633	50,327	6,737	44,569	101,633	50,327	6,737	44,569	0	0	0	0
1977	76,251	45,842	3,695	26,714	76,251	45,842	3,695	26,714	0	0	0	0
1978	117,969	69,852	9,241	38,876	117,930	69,813	9,241	38,876	39	39	0	0
1979	113,977	38,917	18,870	56,190	113,977	38,917	18,870	56,190	0	0	0	0
1980	159,658	54,876	26,325	78,457	159,658	54,876	26,325	78,457	0	0	0	0
1981	213,594	91,861	20,598	101,135	213,594	91,861	20,598	101,135	0	0	0	0
1982	120,189	50,773	11,127	58,289	120,189	50,773	11,127	58,289	0	0	0	0
1983--												
1st quarter	42,952	17,999	2,467	22,486	42,952	17,999	2,467	22,486	0	0	0	0
2d quarter	55,975	26,494	2,681	26,800	55,975	26,494	2,681	26,800	0	0	0	0
3d quarter	39,020	14,792	2,498	21,730	39,020	14,792	2,498	21,730	0	0	0	0
4th quarter	32,816	12,848	2,087	17,881	32,816	12,848	2,087	17,881	0	0	0	0
1983 total	170,763	72,133	9,733	88,897	170,763	72,133	9,733	88,897	0	0	0	0
1984--												
1st quarter	26,862	10,934	2,255	13,673	26,862	10,934	2,255	13,673	0	0	0	0
2d quarter												
3d quarter												
4th quarter												
1984 total												
					TO MAINLAND CHINA							
1981	9,041	8,829	20	192	335	123	20	192	8,706	8,706	0	0
1982	2,248	2,248	0	0	0	0	0	0	2,248	2,248	0	0
1983--												
1st quarter	0	0	0	0	0	0	0	0	0	0	0	
2d quarter	1,637	1,637	0	0	0	0	0	0	1,637	1,637	0	0
3d quarter	1,619	1,619	0	0	0	0	0	0	1,619	1,619	0	0
4th quarter	4,146	4,146	0	0	0	0	0	0	4,146	4,146	0	0
1983 total	7,402	7,402	0	0	0	0	0	0	7,402	7,402	0	0
1984--												
1st quarter	0	0	0	0	0	0	0	0	0	0	0	
2d quarter												
3d quarter												
4th quarter												
1984 total												

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Includes lumber classified as railroad crossties and not specified by species.

Table 23--Average value of softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/]

(In dollars per thousand board feet)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS
					TO ALL COUNTRIES							
1973	269.96	310.24	174.98	215.55	211.88	262.75	166.56	178.33	309.68	327.79	188.54	349.63
1974	283.80	310.19	211.88	241.28	242.67	267.93	205.45	224.26	318.98	332.98	223.32	306.82
1975	263.14	288.95	206.11	243.68	220.36	228.52	191.93	224.40	295.09	315.86	216.16	315.10
1976	318.61	350.52	220.15	306.38	260.23	280.33	217.02	275.88	365.57	384.21	225.95	449.34
1977	340.02	371.97	240.66	350.99	278.19	291.17	242.18	320.55	394.31	412.17	236.43	469.55
1978	362.29	403.55	266.51	329.76	290.19	309.81	266.70	294.06	443.46	452.34	265.25	499.35
1979	518.36	639.18	377.08	427.85	401.51	471.86	371.57	395.90	631.60	699.47	393.73	542.65
1980	436.14	560.96	319.83	351.55	324.62	361.19	310.48	324.13	561.77	623.19	357.18	426.36
1981	387.06	436.65	342.81	338.11	332.62	360.84	322.81	318.31	441.75	470.44	379.24	390.55
1982	366.89	424.78	291.66	359.59	303.23	304.87	291.53	313.02	442.78	471.22	292.09	486.70
1983--												
1st quarter	349.88	386.89	312.11	314.22	305.05	397.05	313.84	300.12	404.23	419.10	305.98	444.15
2d quarter	328.44	345.86	303.90	316.22	289.95	283.36	309.54	270.24	373.41	374.90	281.06	460.30
3d quarter	353.98	401.49	312.83	306.87	307.22	312.80	325.80	281.19	410.66	438.98	273.51	419.03
4th quarter	357.28	414.03	297.84	305.68	305.62	301.81	322.39	287.07	415.36	463.09	243.33	417.71
1983 average	346.29	383.95	306.32	311.15	301.26	297.07	317.28	284.66	399.31	420.63	272.89	478.61
1984--												
1st quarter	248.75	414.93	282.74	328.88	311.78	332.84	303.13	301.17	405.06	443.12	252.91	429.59
2d quarter												
3d quarter												
4th quarter												
1984 average												
					TO JAPAN							
1973	204.26	198.89	191.64	314.19	194.09	186.88	190.83	260.23	218.49	209.81	193.15	349.39
1974	221.96	228.74	210.08	231.13	217.74	226.46	206.72	229.73	226.23	230.47	215.35	232.32
1975	188.89	155.39	202.62	313.48	188.14	167.70	182.71	533.56	189.45	146.27	220.23	256.41
1976	220.76	204.96	218.97	315.40	223.82	232.17	209.63	337.05	214.14	168.59	246.94	391.56
1977	243.68	249.38	240.35	250.06	246.50	266.64	240.37	256.19	235.40	231.45	240.28	239.31
1978	299.96	393.04	266.25	314.88	293.87	396.05	263.56	332.17	340.64	385.92	316.02	268.52
1979	418.26	491.38	376.08	495.86	407.98	488.99	372.67	480.04	445.53	495.01	388.04	529.21
1980	353.02	391.89	332.12	405.92	346.43	391.76	326.23	411.03	372.09	392.01	355.34	391.88
1981	357.26	436.99	321.23	417.97	357.88	428.98	322.83	433.00	356.32	444.04	318.60	381.77
1982	312.11	315.93	297.27	371.19	286.72	281.02	275.85	347.61	359.52	343.82	370.45	420.45
1983--												
1st quarter	309.30	285.24	313.18	330.11	300.64	268.24	295.68	330.32	328.91	294.94	371.70	327.95
2d quarter	297.69	279.61	304.03	303.07	297.66	262.05	307.48	300.56	297.77	301.25	290.39	317.72
3d quarter	308.88	317.40	309.86	296.72	310.67	289.44	323.22	292.13	304.78	347.63	272.03	311.40
4th quarter	312.45	298.47	288.88	417.95	334.43	289.79	318.48	435.54	264.74	310.48	220.84	336.11
1983 average	307.05	293.92	303.49	337.21	310.94	278.08	310.68	340.15	297.76	310.26	281.80	328.89
1984--												
1st quarter	291.81	310.90	276.82	306.26	299.13	295.52	296.34	308.27	280.56	331.12	251.00	300.22
2d quarter												
3d quarter												
4th quarter												
1984 average												

Table 23--Average value of softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/](continued)

(In dollars per thousand board feet)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS
					TO CANADA							
1973	182.24	192.12	120.04	185.34	182.24	192.12	120.04	185.34	--	--	--	--
1974	205.78	223.84	196.55	183.58	202.89	219.18	196.55	183.40	312.23	312.23	--	300.03
1975	189.59	200.09	199.95	175.20	189.59	200.09	199.95	175.20	--	--	--	--
1976	243.28	257.29	245.57	227.11	243.28	257.29	245.57	227.11	--	--	--	--
1977	237.20	205.68	272.32	286.43	237.20	205.68	272.32	286.43	--	--	--	--
1978	186.31	152.21	240.99	234.59	186.20	151.99	240.99	234.59	536.67	536.67	--	--
1979	333.39	384.39	331.18	298.58	333.28	384.39	331.18	298.58	--	--	--	--
1980	263.66	285.72	252.59	251.96	263.66	285.72	252.59	251.96	--	--	--	--
1981	281.69	298.64	301.46	241.23	271.69	298.64	301.46	241.23	--	--	--	--
1982	263.51	268.80	317.76	248.85	263.51	268.80	317.73	248.85	--	--	--	--
1983--												
1st quarter	263.27	278.36	325.74	244.33	263.27	278.36	325.74	244.33	--	--	--	--
2d quarter	259.43	277.71	332.15	234.08	259.43	277.71	332.15	234.08	--	--	--	--
3d quarter	259.42	281.40	350.39	233.99	259.42	281.40	350.39	233.99	--	--	--	--
4th quarter	250.56	273.08	348.60	222.93	250.56	273.08	348.60	222.93	--	--	--	--
1983 avarage	258.69	277.81	338.73	234.41	258.69	277.81	338.73	234.41	--	--	--	--
1984--												
1st quarter	306.24	302.89	344.07	302.68	306.24	302.89	344.07	302.68	--	--	--	--
2d quarter												
3d quarter												
4th quarter												
1984 average												
					TO MAINLAND CHINA							
1981	283.78	286.62	741.60	105.42	270.55	450.82	741.60	105.42	284.30	284.30	--	--
1982	257.07	257.07	--	--	--	--	--	--	257.07	257.07	--	--
1983--												
1st quarter	--	--	--	--	--	--	--	--	--	--	--	--
2d quarter	314.97	314.97	--	--	--	--	--	--	314.97	314.97	--	--
3d quarter	299.97	299.97	--	--	--	--	--	--	299.97	299.97	--	--
4th quarter	332.71	332.71	--	--	--	--	--	--	332.71	332.71	--	--
1983 average	321.62	321.62	--	--	--	--	--	--	321.62	321.62	--	--
1984--												
1st quarter	--	--	--	--	--	--	--	--	--	--	--	--
2d quarter												
3d quarter												
4th quarter												
1984 average												

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Includes lumber classified as railroad crossties and not specified by species.

Table 24--Softwood lumber exports from northern California ports, by species and destination, 1973-84[1]

(In thousand board feet)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS
		TO ALL COUNTRIES		
1973	73,842	30,746	2,530	40,566
1974	35,314	17,350	815	17,149
1975	27,628	13,388	636	13,604
1976	40,585	14,430	462	25,693
1977	44,438	18,951	1,137	24,350
1978	32,919	12,931	684	19,304
1979	30,832	10,539	1,498	18,795
1980	34,603	10,531	3,777	20,295
1981	47,315	7,841	12,037	27,437
1982	52,717	13,855	7,536	31,326
1983--				
1st quarter	11,357	4,060	1,748	5,549
2d quarter	12,600	5,643	2,584	4,373
3d quarter	12,315	5,727	1,201	5,387
4th quarter	7,008	3,153	86	3,769
1983 total	43,280	18,583	5,619	19,078
1984--				
1st quarter	5,456	2,329	239	2,888
2d quarter				
3d quarter				
4th quarter				
1984 total				
		TO JAPAN		
1973	4,963	328	2,359	2,276
1974	3,208	317	12	2,879
1975	4,303	337	--	3,966
1976	5,724	168	396	5,160
1977	7,766	1,354	--	6,412
1978	6,763	107	200	6,456
1979	8,854	0	700	8,154
1980	17,384	1,160	3,256	12,968
1981	29,437	2,608	11,834	14,995
1982	38,213	7,285	6,581	24,347
1983--				
1st quarter	7,519	1,381	1,748	4,390
2d quarter	6,585	578	2,460	3,547
3d quarter	5,389	274	1,134	3,981
4th quarter	2,664	0	72	2,592
1983 total	22,157	2,233	5,414	14,510
1984--				
1st quarter	2,160	223	185	1,752
2d quarter				
3d quarter				
4th quarter				
1984 total				
		TO MAINLAND CHINA		
1981	93	0	0	93
1982	22	17	0	5
1983--				
1st quarter	0	0	0	0
2d quarter	0	0	0	0
3d quarter	0	0	0	0
4th quarter	0	0	0	0
1983 total	0	0	0	0
1984--				
1st quarter	0	0	0	0
2d quarter				
3d quarter				
4th quarter				
1984 total				

Source--U.S. Department of Commerce.

[1]Northern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

Table 25--Softwood lumber exports from southern California ports, by species and destination, 1973-84[1]

(In thousand board feet)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS
	TO ALL COUNTRIES		
1973	52,608	19,599	33,009
1974	46,514	18,684	27,830
1975	56,759	23,596	33,163
1976	61,256	23,078	38,178
1977	72,588	26,895	45,693
1978	74,347	27,661	46,686
1979	81,372	20,388	60,984
1980	95,641	24,830	70,811
1981	109,451	18,809	90,642
1982	71,212	7,491	63,721
1983--			
1st quarter	6,717	494	6,223
2d quarter	8,472	355	8,117
3d quarter	10,051	686	9,365
4th quarter	10,487	1,068	9,419
1983 total	35,727	2,603	33,124
1984--			
1st quarter	11,121	389	10,732
2d quarter			
3d quarter			
4th quarter			
1984 total			
	TO JAPAN		
1973	264	--	264
1974	64	--	64
1975	119	--	119
1976	377	--	377
1977	172	73	99
1978	471	--	471
1979	739	--	739
1980	2,330	237	2,093
1981	1,477	360	1,117
1982	290	12	278
1983--			
1st quarter	0	0	0
2d quarter	2,155	0	2,155
3d quarter	178	0	178
4th quarter	366	22	344
1983 total	2,699	22	2,677
1984--			
1st quarter	59	0	59
2d quarter			
3d quarter			
4th quarter			
1984 total			

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Southern California consists of the San Diego and Los Angeles Customs Districts and includes all ports south of Monterey, California.

Table 26--Softwood lumber exports from Alaska ports, by species and destination, 1973-84

(In thousand board feet)

YEAR AND QUARTER	TOTAL	WESTERN HEMLOCK	SITKA SPRUCE	CEDAR	OTHER SOFTWOODS
			TO ALL COUNTRIES		
1973	404,849	210,555	194,143	12	139
1974	362,432	250,144	154,525	2,641	122
1975	313,307	179,398	132,556	1,353	0
1976	290,011	134,387	148,526	1,298	5,800
1977	250,044	122,544	121,350	5,579	571
1978	237,795	126,218	111,435	53	89
1979	278,462	172,005	103,844	479	2,134
1980	256,716	158,682	96,607	105	1,322
1981	195,981	104,974	91,007	0	0
1982	171,966	75,500	94,805	0	1,661
1983--					
1st quarter	42,858	20,389	21,854	0	615
2d quarter	23,333	10,727	11,545	0	1,061
3d quarter	36,314	17,962	18,352	0	0
4th quarter	34,155	21,713	12,442	0	0
1983 total	136,660	70,791	64,193	0	1,676
1984--					
1st quarter	24,995	14,414	10,581	0	0
2d quarter					
3d quarter					
4th quarter					
1984 total					
			TO JAPAN		
1973	403,938	210,536	193,390	12	0
1974	361,691	204,845	154,205	2,641	0
1975	312,976	179,122	132,501	1,353	0
1976	289,197	134,274	148,221	902	5,800
1977	245,445	122,471	121,083	1,391	500
1978	236,615	125,355	111,207	53	0
1979	273,615	170,149	101,408	435	1,623
1980	251,369	156,654	94,610	105	0
1981	161,794	82,753	79,041	0	0
1982	155,826	71,192	83,966	0	668
1983--					
1st quarter	34,269	18,795	14,937	0	537
2d quarter	22,230	10,626	10,543	0	1,061
3d quarter	29,008	13,116	15,892	0	0
4th quarter	34,155	21,713	12,442	0	0
1983 total	119,662	64,250	53,814	0	1,598
1984--					
1st quarter	24,994	14,414	10,580	0	0
2d quarter					
3d quarter					
4th quarter					
1984 total					
			TO MAINLAND CHINA		
1981	27,149	18,428	8,721	0	0
1982	13,153	3,307	9,846	0	0
1983--					
1st quarter	5,976	1,582	4,394	0	0
2d quarter	0	0	0	0	0
3d quarter	6,278	4,846	1,432	0	0
4th quarter	0	0	0	0	0
1983 total	12,254	6,428	5,826	0	0
1984--					
1st quarter	0	0	0	0	0
2d quarter					
3d quarter					
4th quarter					
1984 total					

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

Table 27--Softwood lumber exports to Canada from the Montana Customs District, 1973-84[1]

(In thousand board feet)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS
1973	47,727	30,526	3,334	13,867
1974	29,146	9,618	3,602	15,926
1975	50,226	12,745	4,516	32,965
1976	56,451	19,050	3,521	33,880
1977	46,488	12,660	3,463	30,365
1978	44,612	12,691	2,276	29,645
1979	81,671	22,067	1,632	57,972
1980	57,556	14,030	1,803	41,723
1981	82,933	18,196	1,308	63,429
1982	47,418	8,595	690	38,133
1983--				
1st quarter	16,216	3,428	230	12,558
2d quarter	21,160	4,397	185	16,578
3d quarter	18,434	2,736	277	15,421
4th quarter	13,412	1,973	160	11,279
1983 total	69,222	12,534	852	55,836
1984--				
1st quarter	10,88	1,783	31	9,174
2d quarter				
3d quarter				
4th quarter				
1984 total				

Source--U.S. Department of Commerce.

[1]Montana Customs District includes all ports in Montana and Idaho.

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Table 28--Lumber exports from British Columbia ports, by species and destination, 1973-84

(In thousand board feet)

YEAR AND QUARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOODS
			TO ALL COUNTRIES				
1973	4,169,812	566,535	2,032,594	456,522	766,830	344,401	2,930
1974	3,938,940	527,706	1,699,277	406,419	914,787	387,043	3,708
1975	3,001,410	356,371	1,113,665	295,218	825,527	409,507	1,122
1976	4,670,033	542,197	1,967,446	467,829	1,191,429	499,853	1,279
1977	5,860,807	683,614	2,364,028	533,267	2,269,876	8,796	1,226
1978	5,876,119	679,566	2,492,764	570,796	2,116,258	15,674	1,061
1979	5,755,532	679,694	2,313,186	646,701	1,983,829	129,161	2,961
1980	5,160,800	498,425	2,098,672	988,347	1,872,234	99,624	3,498
1981	4,421,519	420,466	1,805,988	604,608	1,495,892	93,086	1,479
1982	4,242,899	339,932	1,803,999	635,865	208,218	1,244,341	10,544
1983--							
1st quarter	1,173,746	80,455	503,998	161,250	62,562	363,111	2,370
2d quarter	1,231,102	92,469	556,169	183,459	42,115	355,453	1,437
3d quarter	1,170,095	83,730	558,274	169,082	44,826	313,650	533
4th quarter	1,222,476	82,212	520,193	193,551	44,272	381,476	772
1983 total	4,797,419	338,866	2,138,634	707,342	193,775	1,413,690	5,112
1984--							
1st quarter	1,270,372	95,998	531,661	204,012	48,185	386,778	3,738
2d quarter							
3d quarter							
4th quarter							
1984 total							
			TO JAPAN				
1973	617,449	12,987	441,852	88,946	71,531	1,849	284
1974	500,785	15,335	349,560	83,749	49,116	2,490	535
1975	407,674	12,870	301,336	60,490	30,488	2,405	85
1976	633,863	13,727	476,927	79,934	61,743	1,521	11
1977	705,823	18,530	530,567	90,447	65,943	85	251
1978	779,135	23,799	545,983	116,368	92,940	0	45
1979	1,014,481	44,021	677,425	158,121	133,358	546	1,010
1980	1,084,426	55,800	701,579	136,130	185,379	4,158	1,380
1981	867,636	34,239	577,901	129,256	125,324	717	199
1982	1,048,371	44,391	713,625	119,900	66,709	103,607	139
1983--							
1st quarter	284,327	10,068	189,631	32,141	19,963	32,499	25
2d quarter	241,695	7,198	157,455	31,260	11,849	33,914	19
3d quarter	177,966	6,039	107,190	22,699	18,636	23,374R	28
4th quarter	194,964	10,257	104,036	39,001	11,746	29,778	46
1983 total	898,952	33,562	558,412	125,101	62,194	119,565	118
1984--							
1st quarter	231,901	5,705	139,376	35,023	18,419	33,239	139
2d quarter							
3d quarter							
4th quarter							
1984 total							

Table 28--Lumber exports from British Columbia ports, by species and destination, 1973-84 (continued)

(In thousand board feet)

YEAR AND QUARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOODS
			TO UNITED STATES[1]				
1973	2,601,556	347,653	1,143,329	240,978	544,634	322,316	2,646
1974	2,287,461	302,112	761,924	207,138	659,751	353,487	3,049
1975	2,026,343	238,331	542,256	166,949	684,404	393,391	1,012
1976	2,965,011	322,793	978,784	267,831	938,185	456,237	1,181
1977	4,107,653	529,808	1,340,920	333,604	1,894,371	7,988	962
1978	4,078,666	501,841	1,443,548	365,062	1,751,741	15,496	978
1979	3,528,648	462,658	1,125,807	382,991	1,429,014	126,536	1,642
1980	2,590,889	283,482	775,428	355,821	1,079,387	94,683	2,088
1981	2,337,958	228,856	803,019	394,800	813,733	96,305	1,245
1982	2,017,725	157,776	637,513	430,634	111,314	679,412	1,076
1983--							
1st quarter	596,902	42,067	197,343	107,140	39,938	209,966	448
2d quarter	716,670	50,047	282,102	125,052	27,625	231,261	583
3d quarter	716,678	54,010	279,588	125,998	24,490	232,182	410
4th quarter	565,452	41,694	222,722	38,173	29,642	232,625	596
1983 total	2,595,702	187,818	981,755	396,363	121,695	906,034	2,037
1984--							
1st quarter	710,697	56,129	223,607	144,187	21,935	264,241	598
2d quarter							
3d quarter							
4th quarter							
1984 total							
			TO MAINLAND CHINA				
1982	43,206	0	28,877	0	624	4,514	9,191
1983--							
1st quarter	16,970	0	10,445	0	0	4,663	1,862
2d quarter	27,465	0	23,994	0	0	3,471	0
3d quarter	35,319	3,308	27,331	0	0	4,680	0
4th quarter	55,289	2,966	49,230	0	0	3,093	0
1983 total	135,043	6,274	111,000	0	0	15,907	1,862
1984--							
1st quater	50,651	3,063	45,155	0	0	571	1,862
2d quarter							
3d quarter							
4th quarter							
1984 total							

Source--Bureau of Economics and Statistics, Department of Industrial Development, Trade, and Commerce, Victoria, B.C., "Preliminary Statement of External Trade."

[1]Figures do not include shipments of railroad crossties.

Table 29--Plywood exports from Washington and Oregon ports, by origin and destination, 1973-84

(In thousand square feet)

YEAR AND QUARTER	FROM BOTH CUSTOMS DISTRICTS		FROM WASHINGTON CUSTOMS DISTRICT		FROM OREGON CUSTOMS DISTRICT	
	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE
			TO ALL COUNTRIES			
1973	284,806	6,337	45,493	5,546	239,313	791
1974	284,487	6,590	131,317	5,604	153,170	986
1975	407,117	10,493	93,951	10,360	313,166	133
1976	532,576	24,229	34,020	23,846	498,556	383
1977	233,762	17,673	20,603	17,447	213,159	226
1978	242,105	12,160	23,284	8,871	218,821	3,289
1979	330,018	9,962	27,132	9,644	302,886	318
1980	279,003	9,718	20,747	8,806	258,256	912
1981	327,967	18,645	65,729	17,333	262,238	1,312
1982	221,609	9,435	36,268	9,346	185,341	89
1983--						
1st quarter	109,950	4,445	10,297	4,311	99,653	134
2d quarter	100,036	4,884	11,347	4,804	88,689	80
3d quarter	40,582	4,576	7,599	4,569	32,983	7
4th quarter	71,818	2,636	8,765	2,636	63,053	0
1983 total	322,386	16,541	38,008	16,320	284,378	221
1984--						
1st quarter	77,171	3,211	5,987	3,066	71,184	145
2d quarter						
3d quarter						
4th quarter						
1984 total						
			TO JAPAN			
1973	8,139	247	1,625	0	6,514	247
1974	3,311	188	1,203	11	2,108	177
1975	2,141	14	414	0	1,727	14
1976	2,361	61	498	61	1,863	0
1977	1,914	162	122	74	1,792	88
1978	2,821	18	167	18	2,654	0
1979	6,040	108	931	108	5,109	0
1980	8,301	978	4,158	978	4,143	0
1981	5,056	13	2,162	12	2,894	1
1982	6,720	19	3,152	19	3,568	0
1983--						
1st quarter	1,264	0	910	0	354	0
2d quarter	1,047	13	765	0	282	13
3d quarter	1,583	3	1,108	0	475	3
4th quarter	1,786	0	1,190	0	596	0
1983 total	5,680	16	3,973	0	1,707	16
1984--						
1st quarter	1,295	0	267	0	1,028	0
2d quarter						
3d quarter						
4th quarter						
1984 total						
			TO MAINLAND CHINA			
1982	0	1	0	1	0	0
1983--						
1st quarter	0	0	0	0	0	0
2d quarter	0	0	0	0	0	0
3d quarter	0	0	0	0	0	0
4th quarter	0	0	0	0	0	0
1983 total	0	0	0	0	0	0
1984--						
1st quarter	0	0	0	0	0	0
2d quarter						
3d quarter						
4th quarter						
1984 total						

Source--U.S. Department of Commerce. Oregon Customs District includes all Oregon ports plus Longview and Vancouver, Washington. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

Table 30--Plywood exports from California, 1973-84[1/]

(In thousand square feet)

YEAR AND QUARTER	TOTAL	NORTHERN CALIFORNIA		SOUTHERN CALIFORNIA	
		SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE
1973	16,562	8,186	698	4,358	3,320
1974	18,177	4,985	305	7,978	4,909
1975	19,619	7,874	542	6,311	4,892
1976	19,696	10,085	92	4,681	5,111
1977	9,198	5,148	646	1,818	1,586
1978	6,036	2,833	899	964	1,340
1979	5,934	1,638	871	1,946	1,479
1980	9,054	1,414	849	3,546	3,245
1981	9,349	2,424	487	2,830	3,608
1982	7,464	3,026	1,364	1,557	1,517
1983--					
1st quarter	1,356	524	58	195	579
2d quarter	2,567	1,302	497	207	561
3d quarter	[2/]2,315	933	259	[2/]572	551
4th quarter	1,890	683	160	356	691
1983 total	8,128	3,442	974	1,330	2,382
1984--					
1st quarter	2,549	751	162	269	1,367
2d quarter					
3d quarter					
4th quarter					
1984 total					

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter. Revisions which may have been made after this time are not shown.

[1/]Northern California is the San Francisco Customs District and includes all coastal and inland ports from Monterey north. Southern California consists of the San Diego and Los Angeles Customs Districts and includes all ports south of Monterey.

[2/]Of this amount, 11,000 square feet were exported to mainland China.

Table 31--Volume of timber sold on publicly owned or managed lands, Montana and Idaho, 1979-84

(In thousand board feet, Scribner scale)

AGENCY	1979	1980	1981	1982	1983 TOTAL	1983 1ST QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.	1984 4TH QTR.	1984 TOTAL
Montana:											
U.S. Forest Service[1]	512,023	579,943	536,133	547,509	589,875	123,057	89,920				
U.S Bur. Land Manage.[2]	9,148	11,079	9,061	6,265	16,375	75	122				
U.S. Bur. Indian Affairs	37,468	25,405	24,693	17,198	13,136	453	7,449				
State of Montana	28,110	24,662	28,853	25,470R	23,553	5,481	5,653				
Total	586,749	641,089R	598,740	596,442	642,939	129,066	102,844				
Idaho:											
U.S. Forest Service[1]	843,992	828,507	741,147	687,320	686,650	131,481	110,644				
U.S. Bur. Land Manage.[2]	778	19,283	33,221	11,538	12,133	238	0				
U.S. Bur. Indian Affairs	1,609	2,381	14,484	7,070	8,605	0	0				
State of Idaho	179,307	222,137	14,820	38,727	82,674	22,012	32,931				
Total	1,025,686	1,072,308	803,672	744,655	790,062	153,731	143,575				
All public lands:											
U.S. Forest Service[1]	1,356,015	1,408,450	1,277,280	1,234,829	1,276,525	254,538	200,264				
U.S. Bur. Land Manage.[2]	9,926	30,362	42,282	17,803	28,508	313	122				
U.S. Bur. Indian Affairs	39,077	27,786	39,177	24,268	21,741	453	7,449				
State of Montana	28,110	24,662	28,853	25,470	23,553	5,481	5,653				
State of Idaho	179,307	222,137	14,820	38,727	82,674	22,012	32,931				
Total	1,612,435	1,713,397	1,402,412	1,341,097	1,433,001	282,797	246,419				

Source--respective agencies listed.

[1]Convertible products only.

[2]Does not include cull log sales.

R = revised.

Table 32--Average stumpage prices of timber sold on publicly owned or managed lands, Montana and Idaho, 1979-84

(In dollars per thousand board feet)

AGENCY	1979	1980	1981	1982	1983 AVERAGE	1983 1ST QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.	1984 4TH QTR.	1984 AVERAGE
Montana:											
U.S. Forest Service[1]	59.66	43.31	57.46	29.80	33.97	34.73	35.00				
U.S. Bur. Land Manage.[2]	41.99	60.39	39.52	32.17	22.78	7.93	8.09				
U.S. Bur. Indian Affairs	114.61	104.81	65.05	73.50	51.13	17.56	50.86				
State of Montana	114.36	79.44	99.28	81.39	83.70	62.74	62.57				
Average	65.52	47.43	59.52	33.28	35.86	35.84	37.63				
Idaho:											
U.S. Forest Service[1]	63.56	40.74	43.27	28.28	47.13	54.29	52.51				
U.S. Bur. Land Manage.[2]	63.70	47.09	55.45	26.71	75.56	9.34	--				
U.S. Bur. Indian Affairs	119.89	129.09	83.15	78.79	78.71	--	--				
State of Idaho	102.23	92.21	101.83	45.28	71.04	90.53	64.84				
Average	70.41	51.71	44.88	29.62	50.41	59.41	55.34				
All public lands:											
U.S. Forest Service[1]	62.09	41.80	49.22	28.95	41.05	44.83	44.68				
U.S. Bur. Land Manage.[2]	43.69	51.94	38.92	28.63	45.24	9.00	8.06				
U.S. Bur. Indian Affairs	114.83	106.53	71.74	75.04	62.04	17.56	50.86				
State of Montana	114.36	79.44	99.28	81.39	83.70	62.74	62.57				
State of Idaho	102.23	92.21	101.83	45.28	71.04	90.53	64.84				
Average	68.63	50.11	51.13	31.25	43.88	48.65	47.95				

Source--respective agencies listed.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

[2]Does not include cull log prices.

Table 33--Average stumpage prices for sawtimber sold on National Forests by selected species, Northern Region, 1973-84[1]

(In dollars per thousand board feet)

YEAR AND QUARTER	DOUGLAS-FIR	PONDEROSA PINE	WESTERN WHITE PINE	LODGEPOLE PINE	ENGELMANN SPRUCE	WESTERN HEMLOCK	CEDARS	LARCH	TRUE FIRS	ALL SPECIES
1973	50.70	66.50	65.90	38.30	65.80	42.60	45.20	66.30	46.10	53.30
1974	31.90	63.50	117.80	19.40	39.10	28.90	26.50	38.90	29.20	44.70
1975	14.40	22.40	36.20	19.20	10.90	2.00	42.50	20.30	4.80	18.30
1976	23.00	56.80	91.40	16.70	42.20	9.60	45.80	52.90	9.30	35.40
1977	41.50	96.60	122.70	38.30	61.40	11.90	72.00	72.20	20.20	53.20
1978	41.20	113.50	146.00	44.70	85.80	42.50	144.90	69.60	37.30	64.80
1979	51.90	127.20	185.60	34.40	75.90	62.10	117.20	91.40	43.90	70.90
1980	20.50	112.70	80.10	42.70	44.10	171.80	123.20	73.80	30.10	53.40
1981	44.20	74.20	149.70	54.50	63.00	61.40	95.60	67.20	78.40	63.90
1982	26.60	48.10	81.40	34.60	27.20	71.10	60.90	28.30	37.70	36.20
1983	42.50	60.50	96.30	34.10	55.20	47.50	142.80	51.00	65.10	53.70
1984--										
1st quarter	55.70	74.90	101.90	40.90	42.00	39.00	102.70	57.90	62.04	58.20
2d quarter										
3d quarter										
4th quarter										
1984 average										

Source--Forest Service, U.S. Department of Agriculture. Northern Region includes Montana, northeastern Washington, northern Idaho, North Dakota, and northwestern South Dakota.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

Table 34--Volume of timber sold on publicly owned or managed lands in California, 1979-84

(In thousand board feet, Scribner scale)

AGENCY	1979	1980	1981	1982	1983 TOTAL	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.	1984 4TH QTR.	1984 TOTAL
U.S. Forest Service[1]	2,071,263	1,875,796	1,899,263	1,617,664	1,786,681	437,956	437,750			
U.S. Bur. Land Manage.[2]	4,195	17,203	14,471	33,385	8,919	513	1,005			
U.S. Bur. Indian Affairs	33,729	22,230	11,000	63,595	3,000	0	1,500			
State of California	21,833	30,328	10,480	34,726	31,452	17,342	26,620			
Total	2,131,020	1,945,557	1,935,214	1,749,370	1,830,052	455,811	466,875			

Source--respective agencies listed.

[1]Convertible products only. Includes all of the Pacific Southwest Region and the portion of the Pacific Northwest Region in California.

[2]Does not include cull log sales or volume given away through free use permits.

Table 35--Average stumpage prices of timber sold on publicly owned or managed lands in California, 1979-84

(In dollars per thousand board feet)

AGENCY	1979	1980	1981	1982	1983 AVERAGE	1983 1ST QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.	1984 4TH QTR.	1984 AVERAGE
U.S. Forest Service[1]	201.08	241.39	149.78	53.87	70.66	83.83	86.45				
U.S. Bur. Land Manage.[2]	102.59	173.25	84.26	41.10	78.47	47.42R	14.59				
U.S. Bur. Indian Affairs	157.70	158.28	224.73	153.90	110.00	--	26.67				
State of California	370.76	283.94	190.57	133.93	188.59	247.97	184.57				
Average	201.94	240.51	180.70	58.86	72.79	90.04	91.71				

Source--respective agencies listed.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

[2]Does not include cull log sales or volume given away through free use permits.

R = revised.

Table 36--Average stumpage prices for sawtimber sold on National Forests by selected species, Pacific Southwest Region, 1973-84[1]

(In dollars per thousand board feet)

YEAR AND QUARTER	DOUGLAS-FIR	PONDEROSA AND JEFFREY PINES	SUGAR PINE	LODGEPOLE PINE	CEDARS	TRUE FIRS	ALL SPECIES
1973	84.80	108.60	89.30	12.40	86.40	70.20	83.10
1974	87.00	101.40	104.00	6.50	112.00	41.70	81.80
1975	51.40	71.00	99.00	22.40	79.90	19.70	53.80
1976	76.00	101.80	185.00	6.50	84.00	23.40	80.40
1977	124.30	131.40	168.50	165.20	337.90	50.60	121.10
1978	131.10	164.70	169.20	136.20	516.40	79.80	148.10
1979	186.60	239.00	375.40	25.40	497.10	96.00	206.20
1980	189.50	206.10	671.40	252.80	559.90	133.40	252.20
1981	146.70	196.20	224.10	123.60	108.20	90.30	156.10
1982	50.00	66.90	72.00	27.80	70.30R	36.30	54.50
1983--							
1st quarter	75.70	84.60	149.30	37.80	109.60	72.20	85.10
2d quarter	48.30	119.40	70.80	25.40	99.40	43.60	65.70
3d quarter	56.40	90.10	169.30	22.80	57.20	48.40	73.70
4th quarter	79.80	154.30	137.00R	36.20R	116.20	54.40	92.90
1983 average	63.30	104.00	136.70R	28.80R	84.60	53.80	76.90
1984--							
1st quarter	81.70	131.40	111.80	10.00	78.30	83.10	98.10
2d quarter							
3d quarter							
4th quarter							
1984 average							

Source--Forest Service, U.S. Department of Agriculture. Pacific Southwest Region is the State of California.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

R = revised.

Table 37--Volume of timber sold on publicly owned or managed lands, Washington and Oregon, 1979-84

(In thousand board feet, Scribner scale)

AGENCY	1979	1980	1981	1982	1983 TOTAL	1983 1ST QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.	1984 4TH QTR.	1984 TOTA
Western Washington:											
U.S. Forest Service[1]	1,222,548	1,114,024	1,224,969	1,066,085	1,153,819	333,610	236,743				
U.S. Bur. Indian Affairs	22,882	6,927	13,460	2,535	13,653	839	1,949				
State of Washington[2]	1,150,935	503,565	368,885	601,935	537,295	152,160	128,660				
Total	2,396,365	1,624,516	1,607,314R	1,670,555	1,704,767	486,609	367,352				
Eastern Washington:											
U.S. Forest Service[1]	420,819	428,631	389,029	322,315	495,326	80,772	81,280				
U.S. Bur. Land Manage.	2,645	1,798	3,898	3,025	3,414	0	4				
U.S. Bur. Indian Affairs	140,247	211,205	53,795	44,583	165,656	2,689	20,517				
State of Washington[2]	125,505	80,345	53,710	89,620	62,235	12,410	15,305				
Total	689,216	721,979	500,432	459,543	726,631	95,871	117,106				
Western Oregon:											
U.S. Forest Service[1]	2,441,324	2,643,716	2,378,903	2,418,057	2,179,345	906,967	684,840				
U.S. Bur. Land Manage.	889,797	1,150,026	1,030,627	1,214,330	1,045,924	217,953.	274,625				
U.S. Bur. Indian Affairs[3]	0	0	3,340	0	2,361	0	1,021				
State of Oregon	219,378	238,931	135,461	301,947	268,416	26,091	35,769				
Total	3,550,499	4,032,673	3,548,331	3,934,334	3,496,046	1,151,011	996,255				
Eastern Oregon:											
U.S. Forest Service[1]	1,271,677	1,168,327	1,294,928	1,164,264	1,148,349	356,626	294,695				
U.S. Bur. Land Manage.	6,525	2,301	17,864	15,197	19,212	0	427				
U.S. Bur. Indian Affairs	15,439	25,480	55,032	89,438	17,370	0	2,820				
State of Oregon	7,499	5,992	1,040	13,350	1,726	0	0				
Total	1,301,140	1,202,100	1,368,864	1,282,249	1,186,657	356,626	297,942				
All public lands:											
U.S. Forest Service[1]	5,356,368	5,354,698	5,287,829	4,970,721	4,976,839	1,677,975	1,297,558				
U.S. Bur. Land Manage.	898,967	1,154,125	1,052,381	1,232,552	1,068,550	217,953	275,056				
U.S. Bur. Indian Affairs[3]	178,568	243,612	125,627	136,556	199,040	3,528	26,307				
State of Washington[2]	1,276,440	583,910	422,595	691,555	599,530	164,570	143,965				
State of Oregon	226,877	244,923	136,501	315,297	270,142	26,091	35,769				
Total	7,937,220	7,581,268	7,024,941	7,346,681R	7,114,101	2,090,117	1,778,655				

Source--respective agencies listed.

[1]Convertible products only.

[2]Excludes sales under $20,000 since January 1980.

[3]Siletz Reservation formed 1980.

R = revised.

Table 38--Average stumpage prices of timber sold on publicly owned or managed lands, Washington and Oregon, 1979-84

(In dollars per thousand board feet)

AGENCY	1979	1980	1981	1982	1983 AVERAGE	1983 1ST QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.	1984 4TH QTR.	1984 AVERAGE
Western Washington:											
U.S. Forest Service[1]	224.68	208.06	180.57	61.48	73.84	61.38	73.21				
U.S. Bur. Indian Affairs	264.95	182.32	129.09	128.64	97.71	90.73	46.76				
State of Washington[2]	332.10	304.71	208.95	146.88	147.00	152.17	145.50				
Average	276.66	237.91	186.65	92.35	97.09	90.02	98.39				
Eastern Washington:											
U.S. Forest Service[1]	104.68	90.92	77.57	30.61	38.60	50.07	53.88				
U.S. Bur. Land Manage.	16.80	21.25	105.60	43.64	51.84	--	62.50				
U.S. Bur. Indian Affairs	212.01	162.32	173.78	191.17	127.06	61.71	171.66				
State of Washington[2]	210.79	207.67	198.94	115.52	67.83	75.46	125.73				
Average	145.50	124.63	101.15	62.38	61.34	53.68	83.90				
Western Oregon:											
U.S. Forest Service[1]	332.09	354.60	276.36	92.44	129.33	138.74	121.01				
U.S. Bur. Land Manage.	292.59	323.63	246.68	89.40	131.14	130.89	121.36				
U.S. Bur. Indian Affairs[3]	--	--	365.16	--	170.20	--	65.47				
State of Oregon	314.93	332.25	262.31	117.52	165.39	144.12	164.55				
Average	321.13	344.44	269.30	93.43	132.67	143.52	122.62				
Eastern Oregon:											
U.S. Forest Service[1]	169.55	130.22	144.49	77.28	81.70	89.52	91.98				
U.S. Bur. Land Manage.	103.25	118.72	84.31	62.45	57.58	--	32.56				
U.S. Bur. Indian Affairs	196.29	266.61	112.47	82.85	140.60	--	3.07				
State of Oregon	229.38	186.29	16.00	111.66	59.68	--	--				
Average	169.88	133.37	142.32	56.33	82.14	89.52	91.05				
All public lands:											
U.S. Forest Service[1]	251.12	254.06	208.60	72.69	96.45	108.69	101.49				
U.S. Bur. Land Manage.	290.41	322.75	243.40	88.96	129.56	130.89	121.22				
U.S. Bur. Indian Affairs[3]	217.43	173.80	147.23	119.00	126.74	68.61	140.21				
State of Washington[2]	320.17	291.35	207.68	142.82	138.71	146.38	143.39				
State of Oregon	312.10	328.68	260.43	114.27	164.71	144.12	164.55				
Average	267.66	267.21	213.67	84.80	108.43	117.73	109.78				

Source--respective agencies listed.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

[2]Excludes sales under $20,000 since January 1980.

[3]Siletz Reservation formed 1980.

Table 39--Average stumpage prices for sawtimber sold on National Forests by selected species, Pacific Northwest Region, 1973-84[1]

(In dollars per thousand board feet)

YEAR AND QUARTER	DOUGLAS-FIR		PONDEROSA AND JEFFREY PINES	SUGAR PINE	WHITE PINE	LODGEPOLE PINE	ENGELMANN SPRUCE	SITKA SPRUCE	WESTERN HEMLOCK	CEDARS[2]	LARCH	NOBLE FIR AND SHASTA RED FIR	OTHER TRUE FIRS	ALL SPECIES
	WEST SIDE	EAST SIDE												
1973	138.10	60.40	77.70	60.50	50.70	38.40	55.60	93.40	99.20	146.80	53.90	81.40	73.80	102.80
1974	202.40	68.20	110.60	139.10	121.00	25.70	50.20	72.60	110.80	217.00	11.00	136.20	80.90	142.40
1975	169.50	34.30	43.10	109.90	84.40	15.40	13.70	75.90	68.50	119.20	5.80	117.70	45.10	101.60
1976	176.20	38.60	79.40	118.90	116.00	40.20	10.50	83.10	78.10	160.30	20.30	105.60	55.00	113.20
1977	225.90	71.20	138.40	162.80	142.70	35.40	36.50	103.00	89.20	149.60	62.10	128.90	85.10	153.80
1978	250.31	98.50	218.70	207.90	123.70	41.60	85.40	109.50	111.70	206.60	56.40	122.50	99.10	185.00
1979	394.30	81.70	238.00	267.30	181.90	47.10	51.60	227.90	197.10	329.10	90.50	211.30	189.80	270.00
1980	432.20	70.80	190.80	167.00	102.80	44.60	34.20	306.50	208.00	301.00	43.60	241.80	167.90	285.50
1981	350.20	94.00	206.40	174.50	100.60	36.60	15.00	238.00	162.00	168.70	69.70	147.30	103.80	230.60
1982	118.20	5.80	78.60	83.60	50.00	17.40	19.50	49.50	44.60	101.90	37.50	28.40	40.00	80.20
1983--														
1st quarter	180.50	31.70	132.70	64.00	24.80	18.90	22.10	25.90	52.60	51.00	31.60	39.50	57.10	122.60
2d quarter	152.80	57.00	127.90	165.60	40.40	22.30	37.60	18.50	71.80	102.90	22.80	61.00	77.30	112.90
3d quarter	142.20	30.70	129.70	161.70	136.90	21.80	42.60	35.20	55.00	68.40	18.90	83.60	50.90	93.90
4th quarter	154.80	39.30	157.40	247.20	78.50	11.00	19.70	43.60	83.20	173.90	62.10	20.90	54.70	119.10
1983 average	161.60	37.60	134.30	131.80	74.30	20.20	28.70	30.00	61.90	88.70	31.80	42.40	58.30	112.50
1984--														
1st quarter	165.80	60.80	148.20	285.60	84.80	39.40	28.20	55.10	83.90	184.90	51.90	96.90	54.80	128.70
2d quarter														
3d quarter														
4th quarter														
1984 average														

Source--Forest Service, U.S. Department of Agriculture. Pacific Northwest Region includes Oregon and Washington.

[1]Prices for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

[2]Includes Port-Orford-cedar.

Table 40--Volume and average stumpage price of selected species on the National Forests of the Pacific Northwest Region, 1984 1/ 2/

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

NATIONAL FOREST	DOUGLAS-FIR				PONDEROSA AND JEFFREY PINES		WESTERN HEMLOCK		TRUE FIRS 3/		ALL SPECIES	
	WEST SIDE		EAST SIDE									
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
Western Oregon:												
Mount Hood--												
1st qtr.	54,226	150.24	4,300	31.28	3,920	42.50	36,413	125.74	4,210	53.85	131,257	106.72
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Rogue River--												
1st qtr.	31,190	196.47	0	--	2,145	119.01	0	--	5,175	89.05	61,275	146.69
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Siskiyou--												
1st qtr.	25,394	94.22	0	--	60	47.93	250	33.67	830	42.89	31,523	103.12
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Siuslaw--												
1st qtr.	82,871	173.78	0	--	0	--	17,712	89.85	0	--	109,600	151.00
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Umpqua--												
1st qtr.	100,233	160.61	0	--	0	--	0	--	0	--	120,593	146.73
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Willamette--												
1st qtr.	128,986	170.66	0	--	300	234.72	27,715	33.94	360	12.62	214,576	116.06
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
All western Oregon:												
1st qtr.	422,900	163.59	4,300	31.28	6,425	77.07	82,090	86.73	10,575	68.81	668,824	127.68
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Western Washington:												
Gifford Pinchot--												
1st qtr.	51,530	87.98	0	--	0	--	5,890	36.15	14,920	64.06	82,660	69.97
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Mount Baker-Snoqualmie--												
1st qtr.	20,245	113.46	0	--	0	--	28,217	75.50	15,060	86.94	89,575	86.94
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Olympic--												
1st qtr.	10,416	106.72	0	--	0	--	27,084	41.80	3,760	41.39	58,904	61.98
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

NATIONAL FOREST	DOUGLAS-FIR				PONDEROSA AND JEFFREY PINES		WESTERN HEMLOCK		TRUE FIRS[3/]		ALL SPECIES	
	WEST SIDE		EAST SIDE									
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
All western Washington:												
1st qtr.	82,191	96.63	0	--	0	--	61,191	56.79	33,740	52.11	231,139	74.40
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
All western Oregon and western Washington:												
1st qtr.	505,091	152.69	4,300	31.28	6,524	77.07	143,281	73.94	44,315	56.10	899,963	114.00
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Eastern Oregon:												
Deschutes--												
1st qtr.	0	--	1,980	309.66	20,900	180.87	0	--	2,880	30.17	31,200	144.65
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Fremont--												
1st qtr.	0	--	0	--	13,910	104.15	0	--	9,920	44.34	24,980	76.03
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Malheur--												
1st qtr.	0	--	8,920	7.83	57,880	172.39	0	--	11,300	3.77	79,350	127.19
2d qtr.												
3d qtr.												
4th qtr.												
Total and average0												
Ochoco--												
1st qtr.	0	--	3,400	20.07	23,890	112.50	0	--	2,300	15.07	29,560	94.40
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Umatilla--												
1st qtr.	0	--	0	--	0	--	0	--	6,180	53.25	16,070	24.39
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Wallowa-Whitman--												
1st qtr.	0	--	16,330	34.85	10,060	96.48	0	--	11,010	49.89	58,220	37.51
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
Winema--												
1st qtr.	0	--	2,010	37.66	31,390	132.38	1,100	111.00	6,790	15.59	44,590	125.62
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
All eastern Oregon:												
1st qtr.	0	--	32,640	42.77	158,030	145.67	1,100	111.00	50,380	31.52	283,970	97.00
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												

Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

ATIONAL OREST	DOUGLAS-FIR				PONDEROSA AND JEFFREY PINES		WESTERN HEMLOCK		TRUE FIRS[3/]		ALL SPECIES	
	WEST SIDE		EAST SIDE									
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
stern Washington:												
olville--												
1st qtr.	0	--	539	124.68	73	81.59	0	--	2,526	22.22	19,309	36.86
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
kanogan--												
1st qtr.	0	--	7,191	86.27	120	25.37	0	--	0	--	8,111	86.44
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
enatchee--												
1st qtr.	0	--	30,578	62.64	12,655	56.09	2,960	15.81	5,277	20.95	52,770	52.92
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
All eastern Washington:												
1st qtr.	0	--	38,308	67.95	12,848	55.95	2,960	15.81	7,803	21.36	80,190	52.45
2d qtr.												
3d qtr.												
4th qtr.												
Total and average												
l eastern Oregon												
d eastern Washington:												
st qtr.	0	--	70,948	56.37	170,878	138.92	4,060	42.00	58,183	30.16	364,164	87.19
d qtr.												
d qtr.												
th qtr.												
otal and average												
cific Northwest Region:												
st qtr.	505,091	152.69	75,248	54.93	177,308	136.68	147,341	73.06	102,498	41.37	1,264,123	106.27
d qtr.												
d qtr.												
th qtr.												
otal and average												
l of Oregon:												
st qtr.	422,900	163.59	36,940	41.43	164,455	142.99	83,190	87.05	60,955	37.99	952,794	118.54
d qtr.												
d qtr.												
th qtr.												
otal and average												
l of Washington:												
st qtr.	82,191	96.63	38,308	67.95	12,848	55.95	64,151	54.93	41,543	46.34	311,329	68.75
d qtr.												
d qtr.												
th qtr.												
otal and average												

urce--U.S. Department of Agriculture. Pacific Northwest Region includes Oregon and Washington.

Preliminary.

Prices for individual sales may vary from the averages shown in this table because of differences in species mix, quality, road costs, logging d processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage in National Forest nds are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for ie-area betterment (K-V funds).

Does not include noble fir or Shasta red fir.

Table 41--Volume of timber sold on publicly owned or managed lands in Alaska, 1979-84

(In thousand board feet, Scribner scale)

AGENCY	1979	1980	1981	1982	1983 TOTAL	1983 1ST QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.	1984 4TH QTR.	1984 TOTAL
U.S. Forest Service[1]	93,733	145,285	163,700	71,429	79,994R	978	10,631				
U.S. Bur. Land Manage.[2]	22	125	32	1,270	0	0	0				
U.S. Bur. Indian Affairs	258,360	12,794	200	7,680	0	0	0				
State of Alaska	156,235	4,949	18,402	24,154	72,145	3,900	4,062				
Total	508,350	163,153	182,334	104,533	152,139R	4,878	14,693				

Source--respective agencies listed.

[1]Convertible products only.

[2]Does not include cull log sales or volume given away through free use permits.

R = revised.

Table 42--Average stumpage prices of timber sold on publicly owned or managed lands in Alaska, 1979-84

(In dollars per thousand board feet)

AGENCY	1979	1980	1981	1982	1983 AVERAGE	1983 1ST QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.	1984 4TH QTR.	1984 AVERAGE
U.S. Forest Service[1]	159.71	101.72	46.91	32.03	14.82R	17.24	8.50				
U.S. Bur. Land Manage.[2]	34.09	6.00	34.00	28.08	--	--	--				
U.S. Bur. Indian Affairs	5.31	151.83	2.00	122.40	--	--	--				
State of Alaska	3.22	24.63	19.21	18.23	87.96	17.06	15.98				
Average	33.14	103.24	44.06	35.43	49.46R	17.09	10.57				

Source--respective agencies listed. Includes products other than sawtimber.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

[2]Does not include cull log sales or volume given away through free use permits.

R = revised.

Table 43--Average stumpage prices for sawtimber sold on National Forests by selected species, Alaska Region, 1973-84[1]

(In dollars per thousand board feet)

YEAR AND QUARTER	SITKA SPRUCE	WESTERN HEMLOCK	CEDAR AND OTHER SOFTWOODS	ALL SPECIES
1973	13.30	11.50	21.10	12.50
1974	41.80	22.30	41.70	28.80
1975	33.00	18.10	60.70	23.20
1976	25.10	12.00	67.30	28.00
1977	65.00	65.00	4.00	63.00
1978	99.17	4.27	136.17	40.57
1979	289.50	100.00	161.70	142.70
1980	213.30	18.40	437.40	101.10
1981	131.60	24.30	4.50	47.50
1982	39.00	14.50	35.70	32.40
1983--				
1st quarter	24.50	7.70	13.80	17.10
2d quarter	70.50	47.20	6.90	60.50
3d quarter	19.95	5.00	8.90	9.80
4th quarter	17.00	5.80	7.00	20.30
1983 average	29.00	6.70	8.90	14.60
1984--				
1st quarter	14.70	6.50	29.20	15.60
2d quarter				
3d quarter				
4th quarter				
1984 average				

Source--Forest Service, U.S. Department of Agriculture. Alaska Region is the State of Alaska.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

Table 44--Volume and average value of all species of timber sold from the National Forest Regions of the Western United States, 1973-84[1]

(Volume in million board feet, Scribner scale; value in dollars per thousand board feet)

	NORTHERN REGION		ROCKY MOUNTAIN REGION		SOUTHWESTERN REGION		INTERMOUNTAIN REGION		PACIFIC SOUTHWEST REGION		PACIFIC NORTHWEST REGION		ALASKA REGION	
YEAR	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
1973	1,012.0	48.02	326.9	18.62	391.3	57.58	495.8	76.15	2,202.5	81.64	4,606.4	93.10	73.9	6.88
1974	1,036.1	35.62	233.0	11.62	237.6	37.75	293.9	45.32	1,787.2	78.19	4,818.7	125.22	128.2	25.82
1975	892.8	17.09	385.5	4.30	368.3	19.83	413.4	8.26	1,870.8	52.21	5,058.4	92.25	147.4	21.41
1976	872.0	32.96	290.7	7.70	293.4	33.01	290.5	16.42	1,425.0	77.87	3,624.2	104.23	15.8	21.80
1977	1,043.3	49.46	325.7	16.91	281.5	68.86	424.6	19.81	1,705.8	118.40	4,662.8	140.29	1.3	9.77
1978	1,090.9	61.35	366.8	23.21	386.3	86.19	364.0	36.75	1,983.1	145.80	4,841.4	172.63	178.3	33.99
1979	1,089.1	66.23	382.3	8.41	368.4	90.64	330.3	40.59	2,051.8	200.54	5,364.9	251.69	132.2	127.55
1980	1,158.5	46.48	324.9	5.48	338.1	49.11	368.7	26.80	1,867.3	242.22	5,326.7	254.65	147.7	93.84
1981	1,033.7	57.45	417.7	8.68	444.7	86.38	342.0	16.05	1,886.6	148.14	5,294.7	209.10	165.7	46.47
1982	1,004.8	33.22	338.7	5.72	358.0	23.32	342.6	11.52	1,674.1	52.23	4,957.0	72.73	74.0	31.37
1983--														
1st qtr.	244.1	46.27	114.8	13.42	55.4	21.20	40.1	11.95	437.6	83.83	1,678.3	108.68	1.0	17.24
2d qtr.	357.8	45.45	94.8	10.53	80.9	45.11	71.1	14.18	458.7	60.86	980.3	97.85	6.7	65.76
3d qtr.	305.1	47.14	84.5	18.14	174.9	35.59	219.5	24.96	665.0	64.95	1,344.7	78.98	71.6	9.84
4th qtr.	148.3	44.12	36.0	11.98	44.0	37.41	64.6	19.99	221.1	82.82	956.3	97.85	.8	30.01
Total or average	1,055.3	45.93	330.0	13.64	355.2	35.74	395.5	22.25	1,782.4	70.75	4,959.3	96.40	80.1	14.82
1984--														
1st qtr.	163.9	48.75	89.5	13.36	110.1	39.96	44.1	23.08	429.8	86.87	1,304.3	101.32	10.6	8.50
2d qtr.														
3d qtr.														
4th qtr.														
Total or average														

Source: Respective Regions of the Forest Service, U.S. Department of Agriculture.

[1]Northern Region includes Montana, northeastern Washington, northern Idaho, North Dakota, and northwestern South Dakota; Rocky Mountain Region includes Colorado, Kansas, Nebraska, remainder of South Dakota, and eastern Wyoming; Southwestern Region includes Arizona and New Mexico; Intermountain Region includes southern Idaho, Nevada, Utah, and western Wyoming; Pacific Southwest Region includes California and Hawaii; Pacific Northwest Region includes Oregon and Washington; Alaska Region is all of Alaska.

Table 45--Volume and average value of all species of timber harvested from the National Forest Regions of the Western United States, 1973-84[1]

(Volume in million board feet, Scribner scale; value in dollars per thousand board feet)

	NORTHERN REGION		ROCKY MOUNTAIN REGION		SOUTHWESTERN REGION		INTERMOUNTAIN REGION		PACIFIC SOUTHWEST REGION		PACIFIC NORTHWEST REGION		ALASKA REGION	
YEAR	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
1973	1,133.7	35.96	329.4	20.20	350.7	38.20	470.7	29.26	2,010.7	58.08	5,369.6	48.15	591.6	6.8
1974	1,019.4	29.87	295.0	14.41	366.7	41.90	403.3	28.88	1,734.6	54.64	4,385.4	56.97	549.6	10.6
1975	840.3	26.85	245.1	10.60	394.0	30.35	356.7	28.19	1,508.7	45.19	3,764.6	58.73	413.1	8.1
1976	1,101.1	40.83	305.0	17.20	396.8	50.25	468.7	55.17	1,889.6	69.38	4,395.9	84.12	472.2	6.3
1977	1,008.0	43.25	311.0	16.72	412.1	52.82	431.4	51.95	1,801.3	90.81	4,113.6	106.25	491.3	3.8
1978	1,005.8	50.55	276.5	17.85	345.2	66.16	397.6	32.23	1,788.2	102.41	4,514.2	131.47	408.6	4.3
1979	957.5	54.46	293.8	15.27	385.8	64.72	412.7	48.16	1,726.6	100.08	4,388.5	135.53	459.5	4.3
1980	834.1	35.97	240.0	11.48	336.1	44.27	268.9	24.06	1,507.8	86.82	3,489.4	125.36	453.7	16.4
1981	864.0	36.53	256.8	12.15	267.6	53.63	301.3	21.62	1,091.9	95.71	2,978.8	118.44	387.5	13.2
1982	528.9	22.39	258.7	6.97	180.0	25.29	287.8	11.13	937.3	47.80	2,458.2	75.05	345.5	14.8
1983--														
1st qtr.	117.6	15.47	58.5	7.13	33.6	41.33	17.8	7.68	115.6	111.85	646.5	99.20	39.5	2.3
2d qtr.	185.6	71.34	38.0	15.12	75.5	51.14	49.8	45.20	372.2	120.81	1,012.1	112.02	77.6	14.8
3d qtr.	463.9	38.49	133.1	12.35	149.1	35.65	180.1	19.72	772.0	96.54	1,439.1	93.69	65.7	.6
4th qtr.	304.8	41.56	116.2	8.50	120.2	45.96	169.5	14.39	416.5	75.32	1,189.8	82.76	69.2	17.0
Total or average	1,071.9	38.15	345.8	10.48	378.4	42.52	417.2	44.06	1,676.3	97.71	4,287.5	95.81	251.9	10.0
1984--														
1st qtr.	167.9	54.70	61.7	15.32	46.8	33.82	30.9	25.26	191.4	103.79	85.80	118.73	67.0	13.0
2d qtr.														
3d qtr.														
4th qtr.														
Total or average														

Source: Respective Regions of the Forest Service, U.S. Department of Agriculture.

[1]Northern Region includes Montana, northeastern Washington, northern Idaho, North Dakota, and northwestern South Dakota; Rocky Mountain Region includes Colorado, Kansas, Nebraska, remainder of South Dakota, and eastern Wyoming; Southwestern region includrs Arizona and New Mexico; Intermountain Region includes southern Idaho, Nevada, Utah, and western Wyoming; Pacific Southwest Region includes California and Hawaii; Pacific Northwest Region includes Oregon and Washington; Alaska Region is all of Alaska.

Table 46--Allowable annual cut and uncut volume under contract on Bureau of Land Management lands in Oregon, 1973-83[1]

(In million board feet, Scribner log scale)

YEAR	ALLOWABLE CUT[2]	UNCUT VOLUME UNDER CONTRACT	RATIO
1973	1,196	1,390	1.2
1974	1,196	1,503	1.3
1975	1,196	1,838	1.5
1976	1,196	2,077	1.7
1977	1,183	2,066	1.7
1978	1,183	2,204	1.9
1979	1,133	2,224	2.0
1980	1,134	2,484	2.2
1981	1,120	2,608	2.3
1982	1,120	3,491	3.1
1983	1,066	3,427	3.2

Source--Bureau of Land Management.

[1]As of December 31 of each year.

[2]Includes an estimated 17.5 million board feet for eastern Oregon.

Table 47--Small business set-aside sales on National Forests by number and volume, Pacific Northwest Region, 1973-84

YEAR AND QUARTER	COLVILLE[1]		DESCHUTES		FREMONT		GIFFORD PINCHOT		MALHEUR		MOUNT BAKER-SNOQUALMIE[2]		MOUNT HOOD	
	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME
	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft
1973	0	--	0	--	2	25,600	12	18,740	0	--	0	--	[illegible]	--
1974	4	30,100	0	--	4	46,300	33	172,615	1	650	[illegible]	26,860	11	63,527
1975	4	13,855	0	--	5	66,920	18	147,050	2	2,135	[illegible]	56,320	17	66,390
1976	1	2,263	0	--	1	15,200	7	68,250	0	--	2	8,350	[illegible]	10,658
1977	3	13,800	7	63,290	8	69,000	13	192,500	0	--	10	70,450	15	76,379
1978	[illegible]	43,500	0	--	1	357	15	161,500	0	--	0	--	20	83,836
1979	5	42,760	[illegible]	2,150	11	79,460	0	—	0	--	19	11,575	34	86,586
1980	[illegible]	20,400	3	2,032	6	44,360	16	113,140	0	--	18	6,763	44	26,525
1981	14	39,075	10	7,525	7	38,900	3	290	1	89	15	12,572	29	41,313
1982	10	38,460	9	9,580	8	13,440	18	30,920	0	--	12	4,400	31	16,246
1983	[illegible]	2,495	1	640	12	56,890	22	18,671	4	1,165	11	11,075	32	16,905
1984--														
1st qtr.	1	400	0	--	2	8,900	2	10,020	1	545	3	8,470	[illegible]	1,230
2d qtr.														
3d qtr.														
4th qtr.														
1984 total														

YEAR AND QUARTER	OCHOCO		OKANOGAN		OLYMPIC		ROGUE RIVER		SISKIYOU		SIUSLAW		UMATILLA	
	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME
	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft
1973	[illegible]	--	0	--	22	92,199	0	--	17	94,680	14	72,701	5	22,400
1974	0	--	3	19,000	12	78,990	28	98,752	12	52,775	34	174,471	11	74,710
1975	3	39,550	2	21,000	8	53,842	24	143,665	22	59,331	26	201,478	5	28,620
1976	3	19,270	2	9,300	5	45,579	18	46,254	7	22,335	17	118,763	6	23,110
1977	0	--	1	11,500	2	30,926	25	100,807	14	58,980	17	91,027	7	31,100
1978	5	34,300	0	--	6	44,615	47	171,251	13	62,300	39	231,303	0	--
1979	3	23,500	7	20,105	12	106,105	50	118,818	2	270	16	120,834	[illegible]	35,500
1980	1	7,700	2	10,600	12	69,100	31	123,125	7	29,510	7	45,137	3	18,200
1981	5	35,000	2	13,100	6	58,500	54	168,580	24	78,733	44	201,038	7	36,936
1982	3	1,100	3	15,750	4	1,860	26	85,272	33	45,719	44	94,808	1	150
1983	2	640	0	- -	4	2,660	46	86,635	14	29,755	15	2,951	5	32,400
1984--														
1st qtr.	0	--	0	--	1	140	2	990	4	25,440	[illegible]	904	2	5,400
2d qtr.														
3d qtr.														
4th qtr.														
1983 total														

YEAR AND QUARTER	UMPQUA		WALLOWA-WHITMAN		WENATCHEE		WILLAMETTE		WINEMA		ALL FORESTS	
	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME
	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft
1973	0	--	[illegible]	77,400	0	--	7	58,510	5	22,460	92	484,690
1974	22	124,807	0	--	0	--	7	61,520	5	35,550	195	1,060,627
1975	29	146,668	0	--	2	17,400	10	137,810	9	69,600	194	1,271,634
1976	21	55,093	0	--	0	--	19	121,100	5	38,040	118	603,565
1977	29	128,705	0	—	0	--	48	174,585	8	35,110	207	1,148,159
1978	29	125,330	0	--	0	--	33	177,660	13	60,006	225	1,195,958
1979	35	169,212	0	--	5	23,100	53	146,366	6	59,050	266	1,045,391
1980	31	166,650	7	1,799	4	18,000	83	197,229	4	30,400	281	930,670
1981	49	119,185	16	79,375	[illegible]	41,760	63	137,827	[illegible]	69,900	366	1,179,698
1982	36	91,800	10	36,860	7	17,812	80	73,989	7	61,400	342	639,566
1983	13	3,135	3	1,907	11	33,880	43	78,021	2	12,500	244	392,325
1984--												
1st qtr.	5	1,730	[illegible]	--	2	10,500	15	10,838	0	--	50	85507
2d qtr.												
3d qtr.												
4th qtr.												
1984 total												

Source--Forest Service, U.S. Department of Agriculture. Pacific Northwest Region includes Oregon and Washington and a small portion of northern California.

[1]July 1, 1974, Colville National Forest in Washington became part of the Pacific Northwest Region.

[2]July 1, 1974, Snoqualmie National Forest was merged with the Mount Baker National Forest.

Ruderman, Florence K. Production, prices, employment, and trade in Northwest forest industries, first quarter 1984. Resour. Bull. PNW-113. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1984. 56 p.

Provides current information on lumber and plywood production and prices; employment in the forest industries; international trade in logs, lumber, and plywood; volume and average prices of stumpage sold by public agencies; and other related items.

Keywords: Forestry business economics, lumber prices, plywood prices, timber volume, stumpage prices, employment (forest products industries), marketing, (forest products), import/export (forest products), markets (external), economics (forestry business).

The **Forest Service** of the U.S. Department of Agriculture is dedicated to the principle of multiple use management of the Nation's forest resources for sustained yields of wood, water, forage, wildlife, and recreation. Through forestry research, cooperation with the States and private forest owners, and management of the National Forests and National Grasslands, it strives — as directed by Congress — to provide increasingly greater service to a growing Nation.

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Timber Resource Statistics for the Willow Block, Susitna River Basin Multiresource Inventory Uni Alaska, 1978

Theodore S. Setzer, Bert R. Mead, and Gary L. Carroll

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Abstract

Setzer, Theodore S.; Mead, Bert R.; Carroll, Gary L. Timber resource statistics for the Willow block, Susitna River basin multiresource inventory unit, Alaska, 1978. Resour. Bull. PNW-114. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1984. 47 p.

A multiresource inventory of the Willow block, Susitna River basin inventory unit, was conducted in 1978. Statistics on forest area, timber volumes, and growth and mortality from this inventory are presented. Timberland area is estimated at 230,200 acres and net growing stock volume, mostly birch, at 231.9 million cubic feet. Net annual growth of growing stock is estimated at 7.4 million cubic feet and annual mortality at 742,000 cubic feet.

Keywords: Forest surveys, timber inventory, multiresource inventory, statistics (forest), resources (forest), Alaska (south-central), Alaska (Susitna River basin).

Summary

The Forest Inventory and Analysis (FIA) work unit of the Pacific Northwest Forest and Range Experiment Station conducted its first multiresource inventory for Alaska in the Susitna River basin. Fieldwork began in 1978 in the Willow block. The 978,516-acre block lies east of the Big Susitna River and is bounded on the north by the Talkeetna Mountains and on the south and east by Cook Inlet.

Statistics on forest area, timber volumes, and net annual growth and mortality are presented from the 1978 multiresource inventory of the Willow block. Timberland area is estimated at 230,200 acres and net growing stock volume at 231.9 million cubic feet. Net annual growth of growing stock is estimated at 7.4 million cubic feet and annual mortality at 742,000 cubic feet.

Preface

Forest Inventory and Analysis is a nationwide project of the USDA Forest Service authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. Work units of the project, located at Forest Service Experiment Stations, conduct forest resource inventories throughout the 50 States. The Pacific Northwest Forest and Range Experiment Station at Portland, Oregon, is responsible for inventories in Alaska, California, Hawaii, Oregon, and Washington.

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Table 37--Annual mortality of sawtimber on timberland by diameter class and cubic-foot site class, Willow block, Susitna unit, Alaska, 1978

Table 38--Number of growing stock trees, cubic-foot volume per acre, and volume per acre in International 1/4-inch rule on timberland and all forest land by forest type, Willow block, Susitna unit, Alaska, 1978

Highlights[1/]

Area

- Gross area of the Willow block is 978,500 acres.

- Forest land area is 621,300 acres, which is equivalent to 63-1/2 percent of the gross area in the block.

- Timberland accounts for 230,200 acres, or 37 percent of all forest land. Timberland is capable of producing 20 cubic feet or more of wood per acre per year.

- Birch is the predominant forest type, accounting for 310,000 acres and almost 50 percent of the total forest land. The black spruce type follows closely with 277,000 acres and about 45 percent of the total forest land.

- The predominant vegetation class on timberland is closed deciduous forest, medium age stands-deciduous/mixed. This class occupies about 48 percent of the timberland area, but only about 18 percent of all forest land.

- The predominant vegetation class on all forest land (timberland and other forest land combined) is the closed coniferous forest, short stands-black spruce.

- About 53 percent of the total forested vegetation class area is comprised of deciduous/mixed stands. Black spruce stands comprise another 37 percent.

- Site class 4 land (capable of producing 20-49 cubic feet per acre per year) supports 92 percent of the timberland, or 34 percent of the total forest land, and averages 1,015 cubic feet of growing stock volume per acre.

1/ Values presented in this section are estimates and are subject to sampling error.

Inventory

- Growing stock volume on timberland is 231.9 million cubic feet, with the majority of it, 48.9 percent, in sawtimber trees.

- Of the sound wood volume, 6.4 percent is from rough, rotten, and salvable dead trees, or 15.9 million cubic feet.

- Birch makes up 69.1 percent of the growing stock volume and 65.7 percent of the sawtimber volume. The remaining volume is mostly white spruce.

- Average softwood volume per acre of timberland (including all timber classes) is 251 cubic feet. Hardwood volume equals 825 cubic feet per acre.

- There are an average of 28 trees per acre of sawtimber-sized growing stock on timberland.

- There are an average of 283 trees per acre of growing stock less than sawtimber size.

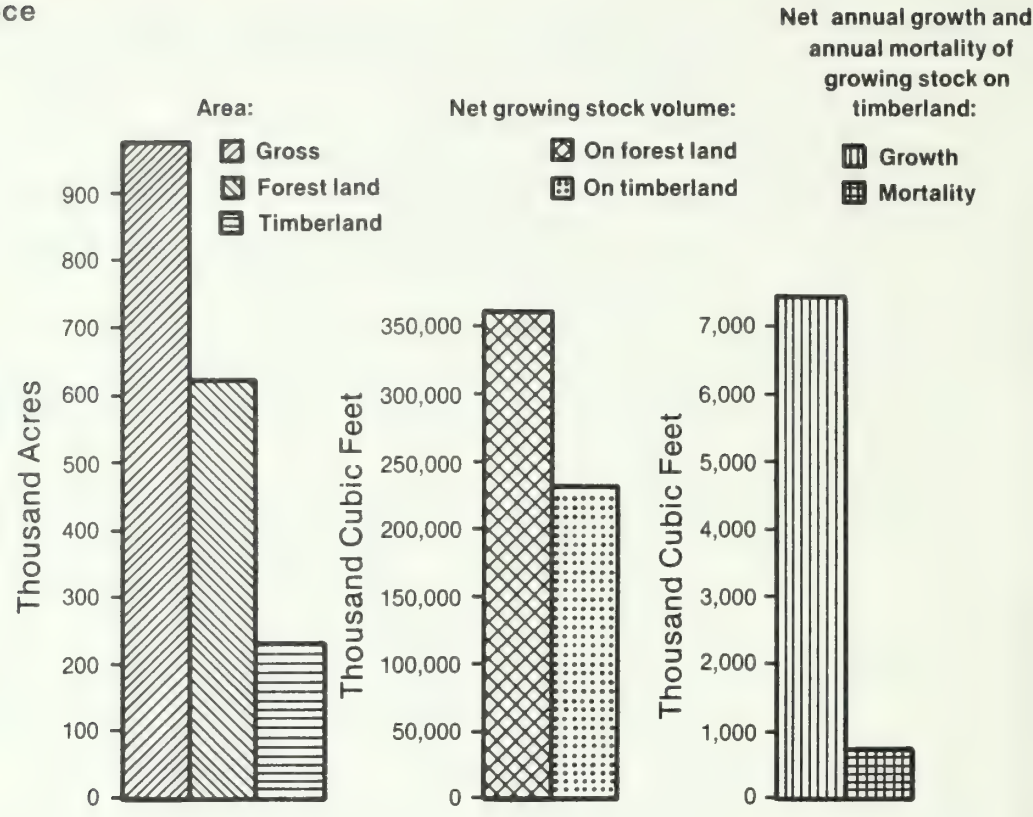
Growth

- Net annual growth of growing stock on timberland is 7.4 million cubic feet. Of the growing stock, 82 percent, or 6.0 million cubic feet, is in the birch type.

Mortality

- Annual mortality of growing stock on timberland is 742,000 cubic feet.

Willow Block at a Glance



Introduction

In 1977, the Alaska Forest Inventory and Analysis (FIA) work unit of the USDA Forest Service, Pacific Northwest Forest and Range Experiment Station, joined with other agencies to plan and conduct a multiresource inventory of the Susitna River basin, south-central Alaska. Cooperating agencies were the USDA Forest Service, Alaska Region, State and Private Forestry; USDA Soil Conservation Service; and the State of Alaska, Department of Natural Resources.

The 978,516-acre Willow block is part of the Susitna River basin multiresource inventory unit. The Susitna River basin is bordered on the north and west by the Alaska Range, on the south by Cook Inlet, and on the east by the Copper River plateau (figs. 1-3). The Willow block is between 61°15' and 62° N. latitude, and 149° and 150° W. longitude. Major drainages in the block are the Little Susitna River and Willow Creek.

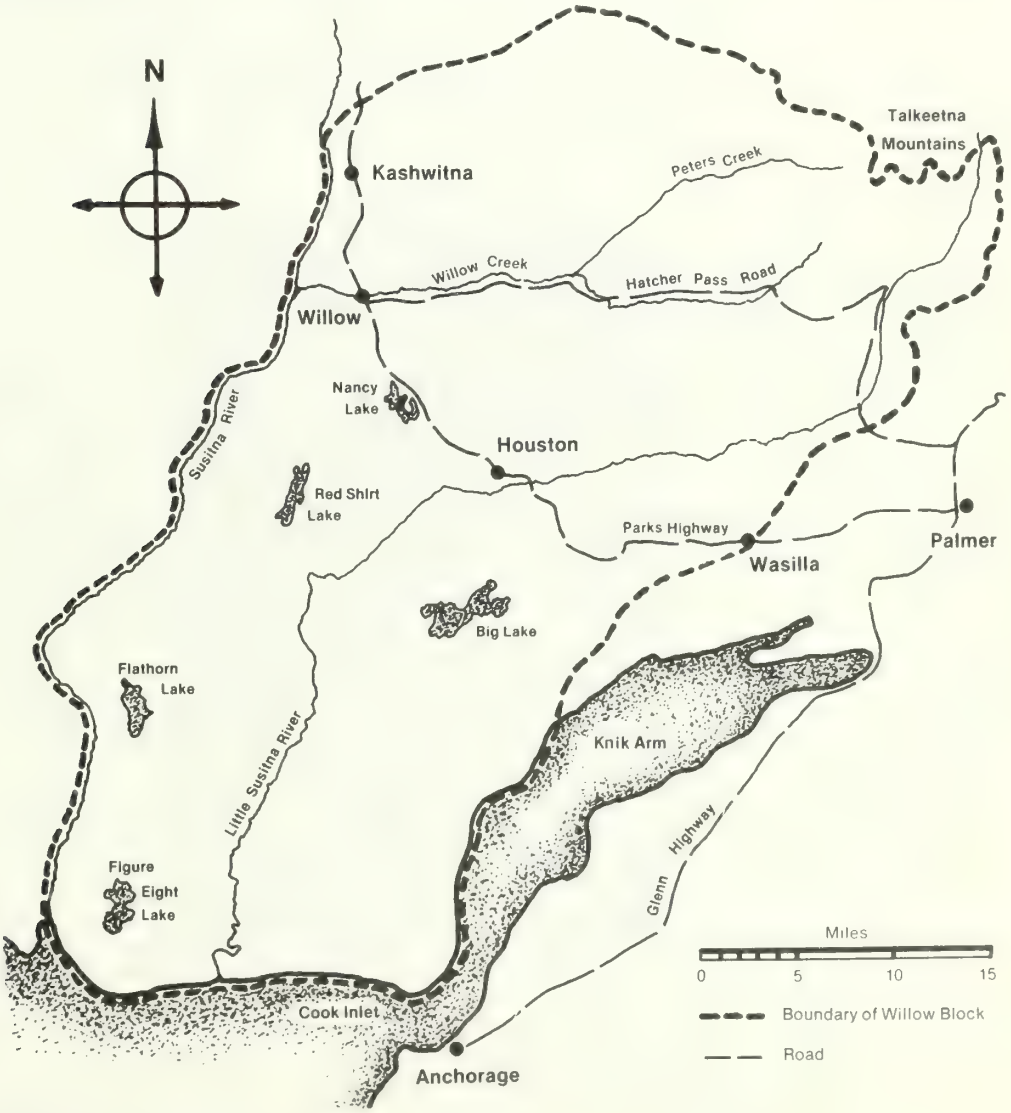


Figure 1.--Willow block, Susitna River basin.

Figure 2.--Many of the highest volume stands in the Willow block are inaccessible because they grow among mazes of meandering streams and on islands. Sites are also subject to frequent short-term flooding.

Figure 3.--Older birch trees in the Willow block often have rot columns accompanied by substantial volume loss. External defect indicators are not always apparent.

In 1978, public interest in the Willow block area was high because of the pending move of the State capitol and associated development. The new capitol was to be located in the block, near the town of Willow. Because of the high likelihood for development at that time, the Willow block was chosen as the first portion of the Susitna River basin to be inventoried.

Inventory Procedures

Sampling strata for the Willow block follow. Land cover/vegetation classes for all strata except water are detailed beginning on page 13.

Forest and woodland (greater than 10-percent tree crown cover):
- Stratum 1. Closed forest (greater than 50-percent tree crown cover)
- Stratum 2. Open forest (10- to 50-percent tree crown cover)

Nonforest (less than 10-percent tree crown cover):
- Stratum 3. Nonforest
- Stratum 4. Cultural influence
- Stratum 5. Nonvegetated-barren
- Stratum 6. Water

Forest, nonforest:
- Stratum 7. Unclassified.

Vegetation for the study area was mapped according to type on 1:120,000-scale color infrared aerial photography enlarged to approximately 1:60,000. This provided a stratum or polygon map that could be associated with estimates of mean volumes made for each stratum. A double sampling method was used to derive estimates (Bickford 1952).

To be mapped, type polygons had to be at least 5 acres in size. Each polygon was labeled with a primary vegetation type or land class code. Secondary and tertiary labels were added if a polygon contained small inclusions (less than 5 acres) of other vegetation.

Sampling of a representative number of type polygons followed, using a double sampling procedure. Primary aerial photo points were located at 1 000-meter Universal Transverse Mercator (UTM) intersections on 1:63,360-scale quadrangle maps of the U.S. Geological Survey. Next, these points were visually transferred to aerial photos. A sampling stratum for each point was then interpreted and a predominant vegetation type assigned to the usually circular, 5-acre area surrounding each point. Points for ground measurements were located in the same mapped polygons as the associated intersections of the grid.

From the photo points, 102 were selected for ground observation and measurements. Sample points were established in 10-point clusters and measured within each 5-acre location. These measurements are the basis for the estimates given in this paper.2/

On forested points, measurements of trees larger than 5 inches in d.b.h. were made on variable radius plots using a nonmetric prism with 40 basal area factor. Trees less than 5 inches were measured on 1/300-acre, circular, fixed radius plots.

2/ Forest Inventory and Analysis staff, Anchorage work unit. Field procedures for the cooperative vegetation inventory of the Susitna River basin, Alaska, Willow block. Anchorage: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station, Forestry Sciences Laboratory; 1978. 91 p. Unpublished report.

Reliability of Inventory Data

Area and volume statistics reported here are estimates based on sampling and, therefore, are subject to sampling error. The reliability of the inventory is expressed in terms of relative sampling errors at the 68-percent confidence level:

	Design sampling error 3/	Sampling error achieved	Sampling error of the total estimate
		Percent	
Timberland area:			
Per million acres	3.0	5.9	
For the total 230,299 acres			±12.3
Other forest land area:			
Per million acres	10.0	8.4	
For the total 391,077 acres			±13.5
Net growing stock volume:			
Per billion cubic feet	10.0	7.1	
For the total 231.915 million cubic feet			±14.8
Net growth of growing stock:			
Per billion cubic feet	10.0	1.7	
For the total 7.436 million cubic feet			±19.5

The estimate of net growing stock volume for the Willow block is 231.915 million cubic feet, ±14.8 percent, yielding 68-percent confidence limits of 197.592 and 266.238 million cubic feet. A 68-percent confidence level means that if repeated samples were taken of this population, the total volume would be between 197.592 and 266.238 million cubic feet 68 percent of the time.

Design sampling error for timberland area (3 percent), was not met. Design sampling errors for other forest land area cubic-foot net growing stock volume, and net growth (all 10 percent) were met.

3/ Forest Service Handbook 4813.1, Chapter 10, Operational Procedures 11.1--1; 1967.

Terminology [4/]

Acceptable trees- Trees meeting the specifications for growing stock but not qualifying as desirable trees.

Area condition class--Area condition class provides a general stratification of timberland by management opportunity class as indicated by the stocking or area controlled by tree and cover class.

Area condition class codes--

10 Areas 100 percent or more stocked with desirable trees and not overstocked. Stands in this category generally do not require any treatment at present to maintain high level of growth.

20 Areas 100 percent or more stocked with desirable trees and overstocked. Stands in this category need a treatment such as thinning to produce maximum levels of growth of desirable trees.

30 Areas 60 to 100 percent stocked with desirable trees, and with less than 30 percent of the area controlled by acceptable growing stock trees, inhibiting vegetation, slash, or nonstockable conditions. Stands in this category generally have conditions favorable for natural improvement of stocking without special treatment.

40 Areas 60 to 100 percent stocked with desirable trees and with 30 percent or more of the area controlled by other trees (or overstocked areas) or conditions that ordinarily prevent occupancy by desirable trees. Stands in this category generally have little prospect for improvement in desirable tree stocking without special treatment such as thinning or cull tree removal.

50 Areas less than 60 percent stocked with desirable trees but with 100 percent or more stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable tree stocking without special treatment. Stands almost to rotation age would usually not be treated.

4/ Terminology is from the manual of field procedures for the Susitna River basin inventory (see footnote 2), and Forest Service Handbook 4813.1 (see footnote 3).

60 Areas less than 60 percent stocked with desirable trees but with 60- to 100-percent stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable tree stocking without special treatment such as timber stand improvement or planting.

70 Areas less than 60 percent stocked with desirable trees and with less than 60-percent stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable tree or growing stock stocking without treatment such as site preparation or regeneration.

Basal area--A measure of square feet of space occupied by the stem of a tree at diameter breast height.

Census water--Streams, sloughs, estuaries, and canals more than one-eighth mile wide; and lakes, reservoirs, and ponds of more than 40 acres.

Commercial species--Tree species presently or potentially suitable for industrial wood products.

Cull material--Portions of a tree unusable for industrial products because of rot, form, or other defect.

Cull trees--Live trees of sawtimber or poletimber size that are not merchantable for saw logs now nor are they likely to become merchantable because of defect, rot, or species.

D.b.h.--Diameter at breast height, a point 4-1/2 feet above the ground on the uphill side of a tree, where, on a normally formed tree, the diameter is measured.

Desirable trees--Growing stock trees with no serious defects in quality limiting present or prospective use, relatively high vigor, and hosting no pathogens that could result in death or serious deterioration before rotation age. They include the type of trees forest managers aim to grow; that is, the trees left in silvicultural cutting or favored in cultural operations.

Diameter class--A classification of trees based on diameter of the tree outside the bark, measured at breast height (4-1/2 feet above the ground). Two-inch diameter classes are commonly used by FIA, with the even inch the approximate midpoint for a class.

Forest land--Land at least 16.7 percent stocked by forest trees of any size, or land formerly having such tree cover, and not currently developed for nonforest use.

Forest trees--Woody plants having a well-developed stem and usually more than 12 feet tall at maturity.

Forest types--A classification of forest land based on the species forming a plurality of the live tree stocking.

Black spruce--Forests in which a plurality of the stand is black spruce. Black spruce most often occurs in nearly pure stands but can be found mixed with tamarack, white spruce, paper birch, and aspen. Black spruce is fairly characteristic of poorer forest land.

White spruce--Forests in which a plurality of the stand is white spruce. Common associates include paper birch and balsam poplar, and occasionally black spruce or quaking aspen.

Balsam poplar--Forests in which a plurality of the stand is balsam poplar. South of the Alaska Range, balsam poplar may be replaced by black cottonwood or hybrids between the two. As the poplar ages, it is usually replaced by white spruce; however, it is usually found as a nearly pure type with only an occasional associate of white spruce or paper birch.

Black cottonwood--Forests in which a plurality of the stand is black cottonwood. Black cottonwood is found south of the Alaska Range in pure stands along major rivers. It hybridizes extensively with balsam poplar where their ranges overlap and in this overlap, area types are not easily distinguished by species but are usually reported as cottonwood/poplar. Black cottonwood stands are replaced by white spruce as they age and the pure stands contain only an occasional white spruce or paper birch.

Paper birch--Forests in which a plurality of the stand is paper birch. Paper birch can occur in pure stands but is more often mixed with white spruce, quaking aspen, or black spruce.

Quaking aspen--Forests in which a plurality of the stand is aspen. Aspen is usually found as a pure type following fire and a willow stage of succession. As the aspen ages, it is usually replaced by spruce, except on very dry sites where it may remain as a pure type. Common associates include black spruce and white spruce and occasionally paper birch.

Gross growth--Annual increase in net volume of trees that have not been cut or have not died.

Growing stock trees--Sawtimber trees, poletimber trees, saplings, and seedlings; that is, all live trees except cull trees.

Growing stock volume--The net cubic-foot volume of sound wood in the bole of growing stock trees 5.0 inches in d.b.h. and larger, from stump to a minimum 4.0-inch top outside the bark or to the point where the central stem breaks into limbs.

Hardwoods--Dicotyledonous trees, usually broadleaved and deciduous. Hardwood species in interior Alaska are balsam poplar, black cottonwood, paper birch, and quaking aspen.

International 1/4-inch rule--A log rule using diameter and length to give yields of logs in board feet of lumber produced when 1-inch boards are cut. It assumes one-half inch of taper per 4 feet of log and a saw kerf of one-fourth inch.

Land area--Area reported as land by the Bureau of the Census. Total land area includes dry land and land temporarily or partially covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than 120 feet wide; and lakes, reservoirs, and ponds less than 1 acre in area.

Land class--A classification of land by the predominant vegetative cover on it, such as forest land. The minimum size area for classification is 1 acre.

Mean annual increment (MAI)--A measure of the volume of wood, in cubic feet, produced on 1 acre during 1 year. FIA minimum standard for timberland is the ability to produce at least 20 cubic feet per acre per year.

Mortality--Number of or the sound wood volume from live trees dying from natural causes during a specified period (5 years).

Net annual growth of growing stock--The annual change in volume of sound wood in live sawtimber and poletimber trees.

Net annual growth of sawtimber--The annual change in net board-foot volume of live sawtimber trees.

Net volume--The gross volume of a tree less deductions for rot, sweep, or other defect affecting product use.

Non-Census water--Streams, sloughs, estuaries, and canals between 120 feet and one-eighth mile wide; and lakes, reservoirs, and ponds between 1 and 40 acres in area.

Noncommercial species--Tree species of typically small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial wood products.

Nonforest land--Land that does not qualify as forest land. Includes land that has never supported forests and lands formerly forested where forest use is precluded by development for nonforest uses, such as crops, improved pasture, residential areas, and city parks. Also includes improved roads and certain areas of water classified by the Bureau of Census as land. Unimproved roads, streams, canals, and nonforest strips in forest areas must be more than 120 feet wide, and clearings in forest areas must be more than 1 acre in size to qualify as nonforest land.

Nonstockable land--Areas of forest land not capable of supporting forest growth because of rock or water.

Nonstocked areas- Timberland less than 16.7 percent stocked with growing stock trees.

Other forest land- Unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions (producing less than 20 cubic feet per acre per year). This includes sterile or poorly drained forest land, subalpine forests, and steep, rocky areas where topographic conditions are likely to prevent management for timber production. Also included is productive forest land withdrawn from commercial timber use by statute or administrative regulation.

Other forest land, inoperable- Other forest land with a gross volume less than 800 cubic feet per acre.

Other forest land, operable- Other forest land with a gross volume of 800 cubic feet or more per acre.

Overstocked areas--Areas where growth of trees is substantially reduced by excessive numbers of trees.

Poletimber stands--Stands at least 16.7 percent stocked with growing stock trees, with half or more of this stocking in poletimber and sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Poletimber trees--Trees 5.0 to 8.9 inches in d.b.h. for softwoods and 5.0 to 10.9 inches in d.b.h. for hardwoods.

Rotten trees--Live trees 5.0 inches in d.b.h. and larger that do not contain a saw log now and are not likely to, primarily because of rot.

Rough trees--Live trees 5.0 inches in d.b.h. and larger that do not contain a saw log now and are not likely to, primarily because of roughness, poor form, or because they are a noncommercial species.

Salvable dead trees--Standing dead trees that are considered currently or potentially merchantable by regional standards. A poletimber tree must be more than one-half sound, a sawtimber tree more than one-third sound (board measure).

Sapling trees--Trees 1.0 to 4.9 inches in d.b.h.

Saw log--A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum small-end diameter of 6 inches inside the bark for softwoods and 8 inches for hardwoods.

Saw-log portion--The bole of sawtimber trees between the stump and the saw-log top.

Saw-log top--The point on the bole of sawtimber trees above which a saw log cannot be produced. The minimum top diameter is 7.0 inches outside the bark for softwoods and 9.0 inches outside the bark for hardwoods.

Sawtimber stands--Stands at least 16.7 percent stocked with growing stock trees, with half or more of this stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to that of poletimber.

Sawtimber trees--Trees at least 9.0 inches in d.b.h. for softwoods and 11.0 inches in d.b.h. for hardwoods.

Sawtimber volume--The volume of sawtimber trees measured in board feet. Net volume equals gross volume less deductions for rot, sweep, crook, and other defects that affect use for lumber.

Seedling--An established tree less than 1.0 inch in d.b.h.

Seedling and sapling stands--Stands at least 16.7 percent stocked with growing stock trees and with seedlings and/or saplings comprising more than half of this stocking.

Site class--A classification of forest land based on its capacity to grow crops of industrial wood. Site classifications are based on the mean annual cubic-foot growth of growing stock attainable in fully stocked stands at culmination of mean annual increment.

Softwoods--Coniferous trees, usually evergreen with needles or scalelike leaves. Species in interior Alaska are white spruce, black spruce, and tamarack.

Stand size class--A classification of forest land based on the predominant size of growing stock present: sawtimber, poletimber, or seedlings and saplings.

Stand volume class--A classification of forest land based on cubic-foot or board-foot timber volume per acre.

Stocking--The degree of occupancy of land by trees, measured by basal area and/or the number of trees in a stand by size or age and spacing, compared with the basal area or number of trees required to fully utilize the growth potential of the land; that is, the stocking standard.

Timber class--A classification of trees based on characteristics of quality such as vigor, size of limbs and knots, and presence or absence of rot. Classes include growing stock; desirable and acceptable trees; and rough, rotten, and salvable dead trees.

Timberland--Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization. Areas qualifying as timberland could produce more than 20 cubic feet per acre per year of industrial wood under management.

Tree size class--A classification of trees based on the diameter of the tree at breast height.

Type map--A map showing classifications of vegetated and barren land, based on interpretation of aerial photographs. Like areas are delineated, labeled, and referred to as polygons.

Upper-stem portion--That part of the main stem or fork of sawtimber trees above the saw-log top to a minimum top diameter of 4.0 inches outside the bark or to the point where the main stem or fork breaks into limbs.

UTM--Universal transverse mercator grid system is a 1000-meter grid named for the map projection on which it is based. It consists of 60 grid zones, each 6° longitude in width. The origin of the grid zone lies at the intersection of the central meridian, which is a straight north-south line passing through Greenwich, England, and the equator, a straight east-west line. Grid lines within a zone are parallel and delineated on USGS quadrangle maps by blue tick marks on map margins.

Vegetation class--A classification of forest and nonforest vegetation based on species, canopy coverage, and height and/or age of vegetation. A classification system unique to FIA was developed for the Susitna River basin multiresource inventory. Classes are defined in the following section.

Water--See Census water and non-Census water.

Vegetation/ Land Cover Classes

I. Forest and woodland (greater then 10-percent crown cover)

A. Closed coniferous forest (greater than 50-percent crown cover)

1. Short stands-white spruce. Main canopy usually less than 30 feet tall. Usually found at higher elevations as isolated pockets in areas dominated by alder; grassland; or open, mixed stands.

2. Tall stands-white spruce. Main canopy usually greater than 30 feet tall. Usually found at lower elevations on better sites; almost always found mixed with old and decadent deciduous trees (very rarely found as a pure type in Susitna River basin).

3. Short stands-black spruce. Main canopy usually less than 30 feet tall. Generally found on wet and/or cold (poor) sites; may be found mixed with birch of poor quality but usually found as a pure type forming islands and stringers in bog areas or transition zones between bog and forest areas. Understory is usually a thick moss and/or sedge mat.

4. Tall stands-black spruce. Main canopy usually greater than 30 feet tall. Can usually be identified as a fire-formed stand, on relatively good sites. Stands are remarkably pure, and the stocking density is usually quite high; may be found mixed with very scattered birch.

B. Closed deciduous forest (greater than 50-percent crown cover)

1. Young stands-deciduous/mixed. Canopy is usually very finely textured when viewed from above; openings in stands are very rare. Composed mostly of birch and/or aspen. This type very rarely mixed with other types except when found as a remnant condition in burned areas. Spruce is not usually evident as a component of the overstory in these young stands. Stands are 0-40 years old.

2. Medium age stands-deciduous/mixed. Canopy is usually fine textured when viewed from above; openings may be fairly common but are usually small. Vegetation elements of this type include birch, spruce, and aspen. Birch is usually found as a main component of this type, but percent composition may vary greatly depending on a number of factors: as the type increases in age, the percentage of white spruce as a crown component usually increases with the amount of understory and number of stand openings. Stands are 40-100 years old.

3. Old stands-deciduous/mixed. Canopy is usually somewhat coarse textured when viewed from above; openings are common and may appear in nearly half the stand. Canopy may also appear smooth, but openings appear as definite holes in the crown. Deciduous trees in these old stands are usually decadent. Spruce is often becoming the dominant species. The understory is usually visible from above and most commonly includes *Calamagrostis* sp. and *Alnus* sp. Stands are always older than 100 years.

4. Young stands-cottonwood. Most commonly found on new islands, downstream ends of old islands, and point bars of rivers. Cottonwood or poplar is usually mixed with large alder and/or willow; understory is sparse to nonexistent. Stands are 0-40 years old.

5. Medium age stands-cottonwood. Most commonly found within a mile of a river (alluvial soils). Stands are usually pure cottonwood or poplar; spacing is even and crown closure approaches 100 percent. Understory in the Susitna River basin is dominated by alder and devil's club. Stands are 40-100 years old.

6. Old stands-cottonwood. Most commonly found near rivers (alluvial soils). Stands may be mixed with young white spruce. Cottonwood trees are extremely large (30-40 inches in diameter) and decadent (larger trees may be only shells). Stands appear somewhat clumpy because of openings. Understory includes large quantities of alder, devil's club, and willow. Stands are older than 100 years.

C. Open coniferous forest (10- to 50-percent crown cover)

1. Short stands-white spruce. Usually found at higher elevations as a transition type between closed forest and high elevation, nonforest areas. Usually found mixed with vegetation elements of the higher elevation type: if the higher elevation type is a mixture of alder and grass, the open white spruce transition type will normally be forming a complex type with alder and grass. Trees are shorter than 30 feet.

2. Tall stands-white spruce. Same as short stands of white spruce normally found at lower elevations or on better sites. Commonly found in creek bottoms mixed with alder/willow and grass. Trees are taller than 30 feet.

3. Short stands-black spruce. Found in association with bog types. Black spruce trees are usually of very poor form. Site is either wet or cold or both. Trees are usually shorter than 15 feet tall.

D. Open deciduous forest (10- to 50-percent crown cover)

1. Medium age stands-deciduous/mixed. Similar to short stands of white spruce except normally found at lower elevations (as elevation increases, so does proportion of spruce in mixed types). Although birch/aspen stands are not usually found as a transition type between forest and high elevation, nonforest areas, they are often found just below areas of open, short white spruce. Stands are 0-40 years old.

2. Old stands-deciduous/mixed. Found in same general location as open, tall stands of white spruce. Found in association with grass and alder. Birch is usually found growing in very small, tight clumps. Spruce are usually found to have an open-grown form and are normally much younger than the hardwood component of the type.

3. Medium age stands-cottonwood. Usually found at tree line just above elevational limit of open white spruce. Found in pockets among low shrubs.

4. Old stands-cottonwood. Two elevational phases of this type seem to occur. The high elevation phase, consisting of balsam poplar, may be found mixed with streamside alder/willow along flowing water on high elevation flats. The low elevation phase, consisting of cottonwood, may be found on major river flood plains growing with a confusing mixture of other types such as open spruce, open birch, alder, and grass.

II. Nonforest (0- to 10-percent crown cover)

A. Tall shrub

1. Alder. This type is dominated by tall (10-15 feet) alder growing in dense thickets with grasses, ferns, and a great variety of forbs growing in the understory. Devil's club can be found as a dominant understory to the alder on wetter and steeper sites. Devil's club will normally exclude other understory vegetation. The type is found at or above tree line.

2. Alder willow (streamside vegetation). This type is dominated by a mixture of very large alder and willow and is normally found on frequently flooded ground such as new islands and point bars. Understory is sparse but may include *Equisetum* and *Calamagrostis* sp. This type is often found mixed with young, open cottonwood; in younger stands the cottonwood is almost indistinguishable from the willow and alder.

B. Low shrub (willow-resin birch)

This type is dominated by either willow or resin birch or a combination thereof. The type is often found in sheltered areas at high elevations such as draws in mountainous terrain. This type is found at and above the transition between tall shrubland and tundra.

C. Grassland (*Calamagrostis*)

This type is dominated by *Calamagrostis* sp., 3-6 feet tall. Fireweed and various ferns are sometimes common. This type is most often found as an understory in the more open forest types and woodland areas where it is commonly associated with alder patches; it can also be found unassociated with other types along small streams.

D. Tundra

1. Sedge-grass tundra. This type is found above tree line on relatively flat, wet areas. Vegetation consists almost entirely of various wet sedges.

2. Herbaceous tundra. This type is found above tree line and is almost always found mixed with and above shrub tundra. The variety of species found is immense, consisting mainly of various grasses and forbs. Soil varies in depth and may be intermixed with rock outcroppings. Vegetation may not be continuous.

3. Shrub tundra. This type is dominated by dwarf shrub birch and ericaceous shrubs along with various short grasses and a large number of forbs. This type is almost always found mixed with and below herbaceous tundra. Density of the shrubs varies considerably and may often appear quite patchy.

4. Mat and cushion tundra. This type is dominated by such plants as dryas, crowberry, bearberry, sedge, grass, lichens, and low-growing forbs. Climatic conditions are extreme at the elevation where this type is found. Vegetation cover may be complete (closed mat cushion) or relatively sparse (scattered mat cushion) with a large percentage of the vegetation being lichens. This type is often mixed with rock.

E. Saltwater wetlands

1. Grassland. *Elymus*-dominated grassland in areas of tidal influence. Usually found at edge of normal high water in sandy soil, where the shoreline gradient is relatively steep, and as a belt of grass along the shore.

2. Low shrub. *Myrica*-dominated shrubland located on tidal flats. Water level is usually fluctuating seasonally. In areas that are more continuously wet, sedge replaces *Myrica*.

3. Tidal marsh. Usually found in areas with many shallow lakes and little topographic relief (within tidal influence). Vegetation is dominated by sedges. Woody plants may occur on the drier sedge and peat ridges that are common to this type.

F. Fresh water wetlands

1. *Sphagnum bog*. Cover is dominated by varying amounts of sedge, *Equisetum* and moss (especially *Sphagnum*). This type is usually found as a floating mat over several feet of water or as a thick mat directly over saturated or frozen soil. Shrubs and stunted trees (if present) may be found on drier peat ridges. This type is similar to tidal marsh except that shallow lakes are less common, the peat ridges form a more continuous and regular pattern and the type is found inland beyond tidal reach. Usually found as a pure type.

2. *Sphagnum*/shrub bog. Vegetation of this type is dominated by a thick moss mat (*Sphagnum*) and/or sedge tussocks. Grass, ericaceous shrubs, *Salix*, blueberry, and cranberry may also be present. Ground water level usually varies seasonally, but this type is usually not as wet as a *Sphagnum bog*. Usually mixed with open stands of short black spruce. Many other types may also be found in close association with this type; they are usually found on glacial moraines and eskers within the bog area.

III. Cultural influence

May be broadly defined as land that has been obviously affected by human activity. Includes agricultural land, urban areas, and land developed to support or provide services to agricultural and urban land. This "type" may be vegetated, but vegetation that is present may not be natural in either composition or spacing.

IV. Nonvegetated-barren

A. Mud flat. Confined to tidal areas (for example, Cook Inlet) and the mouths of major rivers. This "type" may appear vegetated on infrared and normal color photography or from the air, but the "vegetation" is usually algal blooms, and/or other sea plants. Mud flats are usually well patterned with ripple marks or water drainage patterns, are normally submersed during high tide, and may be used as resting and feeding areas by waterfowl.

B. Rock. Includes exposed bedrock and scree commonly found with mat and cushion tundra at high elevations. This "type" is also used to describe large landslides, fresh moraines, and other natural barren areas.

C. Snow field. High-elevation, snow accumulation areas. Appears to be a permanent or nearly year-round part of the landscape. May be found as small pockets on slopes protected from the sun, on lee slopes, or in gulleys. Can be found over bare ground or mat and cushion tundra.

D. Glacier. Includes both icefields and glaciers. Usually found covering several square miles. Considered a permanent part of the landscape. This "type" covers much larger areas than does the snow field type; crevasses, moraines, and other glacial features are usually present.

V. Unclassified

Locations or "points" that could not be classified because of cloud cover or deep shadows on the aerial photographs.

Names Of Trees

Common Name	Scientific Name 5/
Softwoods:	
Black spruce	*Picea mariana* (Mill.) B.S.P.
White spruce	*Picea glauca* (Moench) Voss
Hardwoods:	
Balsam poplar	*Populus balsamifera* L.
Black cottonwood	*Populus trichocarpa* Torr. and Gray
Paper birch	*Betula papyrifera* Marsh
Quaking aspen	*Populus tremuloides* Michx.

5/ Scientific names are according to Viereck and Little (1972).

Tables

Estimates in this report are developed from statistically based samples and therefore are subject to sampling error. Sampling errors for estimates of various sizes are presented in the section "Reliability of Inventory Data."

TABLE 1--AREA BY VEGETATION/LAND COVER CLASS AND LAND CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

VEGETATION/ LAND COVER CLASS	LAND CLASS									
	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	NON-CENSUS WATER	TOTAL NONFOREST	CENSUS WATER	UNCLASSIFIED	ALL CLASSES
					ACRES					
CLOSED CONIFEROUS FOREST	17,318	5,772	230,800	253,891	--	--	--	--	--	253,892
CLOSED DECIDUOUS FOREST	195,933	68,933	63,160	328,026	--	--	--	--	--	328,026
OPEN CONIFEROUS FOREST	16,978	--	22,411	39,389	--	--	--	--	--	39,389
SHRUBLAND	--	--	--	--	40,552	--	40,552	--	--	40,552
TUNDRA	--	--	--	--	121,656	--	121,656	--	--	121,656
BOG	--	--	--	--	20,276	--	20,276	--	--	20,276
CULTURAL INFLUENCE	--	--	--	--	53,327	--	53,327	--	--	53,327
NONVEGETATED-BARREN	--	--	--	--	69,610	--	69,610	--	--	69,610
WATER	--	--	--	--	--	20,170	20,170	20,170	--	40,340
UNCLASSIFIED	--	--	--	--	--	--	--	--	11,447	11,447
ALL CLASSES	230,229	74,705	316,371	621,306	305,421	20,170	325,591	20,170	11,447	978,516

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 2 AREA OF FOREST LAND BY VEGETATION/LAND COVER CLASS, STAND SIZE CLASS, AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

VEGETATION/ LAND COVER CLASS AND STAND SIZE CLASS	SITE CLASS (CUBIC FEET) 1/ 1-9	10-14	15-19	20-49	50-84	ALL CLASSES
			ACRES			
CLOSED CONIFEROUS FOREST, SHORT STANDS-WHITE SPRUCE:						
SAWTIMBER	--	--	11,206	-	-	11,206
POLETIMBER	-	-	--		--	--
SEEDLING AND SAPLING	--	--		5,773	-	5,773
NONSTOCKED AREAS	--	-	-	5,772	--	5,772
TOTAL	-	-	11,206	11,545	--	22,751
CLOSED CONIFEROUS FOREST, SHORT STANDS BLACK SPRUCE:						
SAWTIMBER		-		-	-	--
POLETIMBER		11,546	-	--	--	11,546
SEEDLING AND SAPLING	112,925	11,545	5,773	5,773	--	136,016
NONSTOCKED AREAS	51,758	--	20,276	--	--	72,034
TOTAL	164,683	23,091	26,049	5,773		219,596
CLOSED CONIFEROUS FOREST, TALL STANDS-BLACK SPRUCE:						
SAWTIMBER	--	--	--	--	--	--
POLETIMBER	-	5,773	--	--	--	5,773
SEEDLING AND SAPLING	-	5,772	--	--	--	5,772
NONSTOCKED AREAS	--	--	--	--	--	--
TOTAL	-	11,545	--	--	--	11,545
CLOSED DECIDUOUS FOREST, YOUNG STANDS DECIDUOUS/MIXED:						
SAWTIMBER	5,773	--	--	11,545	--	17,318
POLETIMBER	-	5,773	11,205	5,772	--	22,750
SEEDLING AND SAPLING		11,546	5,773	5,773	5,773	28,865
NONSTOCKED AREAS		5,772	--	--	--	5,772
TOTAL	5,773	23,091	16,978	23,090	5,773	74,705
CLOSED DECIDUOUS FOREST, MEDIUM AGE STANDS-DECIDUOUS/MIXED:						
SAWTIMBER	-	28,524	5,773	46,182	-	80,479
POLETIMBER	5,772	5,772	28,863	46,182	11,546	98,135
SEEDLING AND SAPLING	-	--	--	5,773	--	5,773
NONSTOCKED AREAS	--	--	--	--	--	--
TOTAL	5,772	34,296	34,636	98,137	11,546	184,387
CLOSED DECIDUOUS FOREST, OLD STANDS-DECIDUOUS/MIXED:						
SAWTIMBER	--	--	5,773	45,842	--	51,615
POLETIMBER	--	--	5,772	11,545	--	17,317
SEEDLING AND SAPLING	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--
TOTAL	--	--	11,545	57,387	--	68,932
OPEN CONIFEROUS FOREST, SHORT STANDS-WHITE SPRUCE:						
SAWTIMBER		--	--	-	--	--
POLETIMBER	--	--	--	11,205	--	11,205
SEEDLING AND SAPLING	--	11,206	--	--	--	11,206
NONSTOCKED AREAS	--	--	11,206	5,773	--	16,979
TOTAL	--	11,206	11,206	16,978	--	39,390
ALL CLASSES	176,228	103,229	111,620	212,910	17,319	621,306

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected

1/ Potential yield per acre, mean annual increment.

TABLE 3--AREA OF FOREST LAND BY FOREST TYPE, STAND SIZE CLASS, AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

FOREST TYPE AND STAND SIZE CLASS	SITE CLASS (CUBIC FEET) 1/ 1-9	10-14	15-19	20-49	50-84	ALL CLASSES
			ACRES			
BLACK SPRUCE:						
SAWTIMBER	5,773	--	--	--	--	5,773
POLETIMBER	--	17,318	11,545	5,773	--	34,636
SEEDLING AND SAPLING	112,925	40,069	5,773	5,772	--	164,539
NONSTOCKED AREAS	51,757	--	20,276	--	--	72,033
TOTAL	170,455	57,387	37,594	11,545	--	276,981
WHITE SPRUCE:						
SAWTIMBER	--	5,773	11,206	--	--	16,979
POLETIMBER	-	--	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	5,773	--	5,773
TOTAL	--	5,773	11,206	5,773	--	22,752
COTTONWOOD:						
SAWTIMBER	--	--	--	--	--	--
POLETIMBER	-	--	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--
ASPEN:						
SAWTIMBER	--	--	--	--	--	--
POLETIMBER	--	--	--	11,545	--	11,545
SEEDLING AND SAPLING	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--
TOTAL	--	--	--	11,545	--	11,545
BIRCH:						
SAWTIMBER	--	22,751	11,546	103,569	--	137,866
POLETIMBER	5,773	11,545	34,296	57,387	11,546	120,547
SEEDLING AND SAPLING	--	--	5,773	17,318	5,773	28,864
NONSTOCKED AREAS	--	5,773	11,205	5,773	--	22,751
TOTAL	5,773	40,069	62,820	184,047	17,319	310,028
ALL TYPES AND CLASSES	176,228	103,229	111,620	212,910	17,319	621,306

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 4--AREA OF TIMBERLAND BY CUBIC-FOOT STAND VOLUME CLASS AND FOREST TYPE, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

STAND VOLUME CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
CUBIC FEET PER ACRE			*ACRES*			
0-299	--	5,772	--	--	16,978	22,750
300-799	11,545	--	--	--	51,955	63,500
800-1,499	--	--	--	11,546	80,818	92,364
1,500-2,199	--	--	--	--	51,615	51,615
ALL CLASSES	11,545	5,772	--	11,546	201,366	230,229

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 5--AREA OF TIMBERLAND BY STAND VOLUME CLASS, INTERNATIONAL 1/4-INCH RULE, AND FOREST TYPE, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

STAND VOLUME CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
BOARD FEET, INTERNATIONAL 1/4-INCH RULE			*ACRES*			
0-299	5,773	--	--	5,773	34,636	46,182
300-799	--	--	--	5,773	28,524	34,297
800-1,499	5,773	--	--	--	17,318	23,091
1,500-2,199	--	5,772	--	--	11,546	17,318
2,200-2,999	--	--	--	--	34,636	34,636
3,000-4,999	--	--	--	--	28,864	28,864
5,000-6,999	--	--	--	--	34,296	34,296
7,000 AND OVER	--	--	--	--	11,545	11,545
ALL CLASSES	11,546	5,772	--	11,546	201,365	230,229

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 6--AREA OF TIMBERLAND BY CUBIC-FOOT STAND VOLUME CLASS AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

STAND VOLUME CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
CUBIC FEET		*ACRES*		
0-299	11,205	--	--	11,205
300-799	51,955	11,545	--	63,500
800-1,499	86,591	5,773	--	92,364
1,500-2,199	51,615	--	--	51,615
2,200 AND OVER	--	--	--	--
UNCLASSIFIED	11,545	-	--	11,545
ALL CLASSES	212,911	17,318	--	230,229

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 7--AREA OF TIMBERLAND BY AREA CONDITION CLASS AND FOREST TYPE, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

AREA CONDITION CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
			ACRES			
10 and 20	--	--	--	--	--	--
30 and 40	--	--	--	--	--	--
50	5,773	--	--	11,546	98,136	115,455
60	--	--	--	--	74,705	74,705
70	5,772	5,773	--	--	28,524	40,069
ALL CLASSES	11,545	5,773	--	11,546	201,365	230,229

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 8--NUMBER OF GROWING STOCK TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
INCHES AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	4,329	8,486	12,815	6,225	--	--	--	6,225	19,040
3.0-4.9	2,078	3,810	5,888	14,028	--	693	--	14,721	20,609
5.0-6.9	2,295	1,447	3,742	8,714	--	1,582	--	10,296	14,038
7.0-8.9	1,924	575	2,499	5,094	--	541	--	5,636	8,133
9.0-10.9	1,140	--	1,140	2,890	--	368	--	3,259	4,398
11.0-12.9	845	--	845	2,125	28	57	--	2,210	3,055
13.0-14.9	122	--	122	1,060	--	43	--	1,104	1,225
15.0-16.9	71	--	71	558	15	17	18	608	679
17.0-18.9	14	--	14	213	--	--	--	213	228
19.0-20.9	11	--	11	65	--	--	--	65	76
21.0-22.9	--	--	--	18	8	--	--	27	27
23.0-24.9	--	--	--	7	--	--	--	7	7
25.0 AND LARGER	--	--	--	--	--	--	8	8	8
ALL CLASSES	12,829	14,318	27,147	40,997	51	3,301	26	44,379	71,522

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 9--NUMBER OF ROUGH TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
INCHES AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	3,117	3,810	6,927	6,408	--	520	--	6,928	13,855
3.0-4.9	1,039	1,039	2,078	2,078	--	866	--	2,944	5,022
5.0-6.9	192	235	427	716	--	135	--	851	1,278
7.0-8.9	--	159	159	384	--	--	--	384	543
9.0-10.9	--	--	--	219	--	--	--	219	219
11.0-12.9	--	--	--	91	--	--	--	91	91
13.0-14.9	--	--	--	90	--	--	--	90	90
15.0-16.9	--	--	--	35	--	--	--	35	35
17.0-18.9	--	--	--	14	--	--	--	14	14
19.0-20.9	--	--	--	11	--	--	--	11	11
21.0-22.9	--	--	--	17	--	--	--	17	17
23.0-24.9	--	--	--	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	--	--	2	2	2
ALL CLASSES	4,348	5,243	9,591	10,063	--	1,521	2	11,586	21,177

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 10--NUMBER OF ROTTEN TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
DIAMETER AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	--	--	--	866	--	--	--	866	866
3.0-4.9	--	173	173	173	--	--	--	173	346
5.0-6.9	--	--	--	122	--	118	--	239	239
7.0-8.9	--	--	--	153	--	--	--	153	153
9.0-10.9	--	--	--	297	--	--	--	297	297
11.0-12.9	--	--	--	351	--	--	--	351	351
13.0-14.9	--	--	--	127	--	--	--	127	127
15.0-16.9	--	--	--	34	--	--	--	34	34
17.0-18.9	--	--	--	29	--	--	--	29	29
19.0-20.9	--	--	--	21	--	--	--	21	21
21.0-22.9	--	--	--	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	7	--	7	--	13	13
ALL CLASSES	--	173	173	2,180	--	124	--	2,304	2,477

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 11--NUMBER OF LIVE TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
DIAMETER AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	7,447	12,296	19,743	13,498	--	520	--	14,018	33,760
3.0-4.9	3,117	5,022	8,140	16,279	--	1,559	--	17,838	25,977
5.0-6.9	2,487	1,682	4,169	9,552	--	1,834	--	11,386	15,555
7.0-8.9	1,924	734	2,658	5,630	--	541	--	6,171	8,828
9.0-10.9	1,140	--	1,140	3,406	--	368	--	3,773	4,914
11.0-12.9	845	--	845	2,568	28	57	--	2,653	3,498
13.0-14.9	122	--	122	1,277	--	43	--	1,320	1,442
15.0-16.9	71	--	71	627	15	17	18	678	748
17.0-18.9	14	--	14	256	--	--	--	256	271
19.0-20.9	11	--	11	97	--	--	--	97	109
21.0-22.9	--	--	--	36	8	--	--	44	44
23.0-24.9	--	--	--	7	--	--	--	7	7
25.0 AND LARGER	--	--	--	7	--	7	10	23	23
ALL CLASSES	17,177	19,734	36,911	53,240	52	4,946	28	58,265	95,176

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 12--NET VOLUME OF GROWING STOCK BY FOREST TYPE AND LAND CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

FOREST TYPE	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	ALL CLASSES
			THOUSAND CUBIC FEET			
BLACK SPRUCE	6,452	11,185	23,557	41,194	--	41,194
WHITE SPRUCE	1,527	7,125	4,196	12,848	--	12,848
COTTONWOOD	--	--	--	--	--	--
ASPEN	12,076	--	--	12,076	--	12,076
BIRCH	211,860	61,202	19,916	292,978	--	292,978
UNCLASSIFIED	--	--	--	--	1,255	1,255
ALL TYPES	231,915	79,512	47,668	359,095	1,255	360,351

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 13--NET VOLUME OF SAWTIMBER BY FOREST TYPE AND LAND CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

FOREST TYPE	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	ALL CLASSES
			THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE			
BLACK SPRUCE	6,058	17,521	29,132	52,711	--	52,711
WHITE SPRUCE	8,894	20,370	21,874	51,138	--	51,138
COTTONWOOD	--	--	--	--	--	--
ASPEN	3,424	--	--	3,424	--	3,424
BIRCH	545,679	147,873	11,924	705,476	--	705,476
UNCLASSIFIED	--	--	--	--	9,420	9,420
ALL TYPES	564,055	185,764	62,930	812,749	9,420	822,169

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 14--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	3,216	--	--	3,239	30,344	36,798
7.0-8.9	1,978	--	--	4,084	40,682	46,744
9.0-10.9	--	--	--	4,414	42,480	46,893
11.0-12.9	517	497	--	340	43,984	45,337
13.0-14.9	551	249	--	--	25,017	25,818
15.0-16.9	--	--	--	--	18,286	18,286
17.0-18.9	191	--	--	--	6,233	6,424
19.0-20.9	--	507	--	--	2,646	3,153
21.0-22.9	--	--	--	--	1,055	1,055
23.0-24.9	--	--	--	--	488	488
25.0 AND LARGER	--	274	-	--	645	919
ALL CLASSES	6,452	1,527	--	12,076	211,860	231,915

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 15--NET VOLUME OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*			
9.0-10.9	--	--	--	2,588	63,671	66,259
11.0-12.9	2,431	2,756	--	836	204,306	210,330
13.0-14.9	2,735	1,401	--	--	121,242	125,378
15.0-16.9	--	--	--	--	95,038	95,038
17.0-18.9	892	--	--	--	34,151	35,043
19.0-20.9	--	2,904	--	--	13,950	16,854
21.0-22.9	--	--	--	--	5,719	5,719
23.0-24.9	--	--	--	--	2,769	2,769
25.0 AND LARGER	--	1,833	--	--	4,832	6,665
ALL CLASSES	6,058	8,894	--	3,424	545,679	564,055

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 16--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT STAND VOLUME CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	STAND VOLUME CLASS (CUBIC FEET PER ACRE)					
	0-299	300-799	800-1,499	1,500-2,199	2,200 AND OVER	ALL CLASSES
INCHES AT BREAST HEIGHT	*THOUSAND CUBIC FEET*					
5.0-6.9	1,464	10,648	15,850	8,836	--	36,798
7.0-8.9	--	8,203	26,179	12,362	--	46,744
9.0-10.9	--	5,393	22,932	18,569	--	46,893
11.0-12.9	893	4,127	16,843	23,475	--	45,337
13.0-14.9	622	3,804	7,499	13,892	--	25,818
15.0-16.9	--	1,886	10,309	6,092	--	18,286
17.0-18.9	--	937	2,809	2,677	--	6,424
19.0-20.9	507	495	725	1,426	--	3,153
21.0-22.9	--	--	570	485	--	1,055
23.0-24.9	--	488	--	--	--	488
25.0 AND LARGER	919	--	--	--	--	919
ALL CLASSES	4,405	35,980	103,715	87,815	--	231,915

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 17--NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

TIMBER CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND CUBIC FEET			
SAWTIMBER TREES:				
SAW-LOG PORTION	95,156	--	--	95,156
UPPER STEM PORTION	18,192	--	--	18,192
TOTAL	113,348	--	--	113,348
POLETIMBER TREES	102,723	15,844	--	118,567
ALL GROWING STOCK	216,071	15,844	--	231,915
ROUGH TREES:				
SAWTIMBER	3,605	--	--	3,605
POLETIMBER	7,137	242	--	7,379
TOTAL	10,741	242	--	10,984
ROTTEN TREES:				
SAWTIMBER	1,953	--	--	1,953
POLETIMBER	835	62	--	896
TOTAL	2,787	62	--	2,849
SALVABLE DEAD TREES:				
SAWTIMBER	1,336	--	--	1,336
POLETIMBER	735	--	--	735
TOTAL	2,070	--	--	2,070
ALL CLASSES	231,670	16,148	--	247,818

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 18--NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND DIAMETER CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

TIMBER CLASS	DIAMETER CLASS (INCHES AT BREAST HEIGHT)											
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	23.0-24.9	25.0 AND LARGER	ALL CLASSES
	THOUSAND CUBIC FEET											
SAWTIMBER TREES:												
SAW-LOG PORTION	--	--	10,314	35,308	21,906	16,416	5,898	2,950	1,002	461	902	95,156
UPPER STEM PORTION	--	--	1,555	10,029	3,911	1,870	525	204	52	28	17	18,192
TOTAL	--	--	11,869	45,337	25,818	18,286	6,424	3,153	1,055	488	919	113,348
POLETIMBER TREES	36,798	46,744	35,025	--	--	--	--	--	--	--	--	118,567
ALL GROWING STOCK	36,798	46,744	46,894	45,337	25,818	18,286	6,424	3,153	1,055	488	919	231,915
ROUGH TREES:												
SAWTIMBER	--	--	--	513	781	777	543	139	768	--	83	3,605
POLETIMBER	2,983	2,725	1,671	--	--	--	--	--	--	--	--	7,379
TOTAL	2,983	2,725	1,671	513	781	777	543	139	768	--	83	10,984
ROTTEN TREES:												
SAWTIMBER	--	--	--	1,117	204	97	146	158	--	--	230	1,953
POLETIMBER	172	145	579	--	--	--	--	--	--	--	--	896
TOTAL	172	145	579	1,117	204	97	146	158	--	--	230	2,849
SALVABLE DEAD TREES:												
SAWTIMBER	--	--	1,218	118	--	--	--	--	--	--	--	1,336
POLETIMBER	735	--	--	--	--	--	--	--	--	--	--	735
TOTAL	735	--	1,218	118	--	--	--	--	--	--	--	2,070
ALL CLASSES	40,688	49,614	50,361	47,086	26,803	19,161	7,113	3,451	1,822	488	1,232	247,818

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 19--NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND SPECIES, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

TIMBER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
	THOUSAND CUBIC FEET								
SAWTIMBER TREES:									
SAW-LOG PORTION	30,146	--	30,146	59,782	1,397	2,520	1,312	65,011	95,156
UPPER STEM PORTION	2,877	--	2,877	14,705	225	310	75	15,315	18,192
TOTAL	33,023	--	33,023	74,487	1,622	2,830	1,387	80,326	113,348
POLETIMBER TREES	15,746	5,632	21,377	85,747	--	11,443	--	97,189	118,567
ALL GROWING STOCK	48,769	5,632	54,400	160,234	1,622	14,273	1,387	177,515	231,915
ROUGH TREES:									
SAWTIMBER	--	--	--	3,522	--	--	83	3,605	3,605
POLETIMBER	366	1,211	1,577	5,523	--	279	--	5,802	7,379
TOTAL	366	1,211	1,577	9,045	--	279	83	9,407	10,984
ROTTEN TREES:									
SAWTIMBER	--	--	--	1,723	--	230	--	1,953	1,953
POLETIMBER	--	--	--	835	--	62	--	896	896
TOTAL	--	--	--	2,557	--	292	--	2,849	2,849
SALVABLE DEAD TREES:									
SAWTIMBER	1,218	--	1,218	118	--	--	--	118	1,336
POLETIMBER	578	--	578	156	--	--	--	156	735
TOTAL	1,796	--	1,796	274	--	--	--	274	2,070
ALL CLASSES	50,931	6,843	57,773	172,110	1,622	14,843	1,470	190,045	247,818

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 20--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

	SOFTWOODS			HARDWOODS					
BASAL AREA CLASS	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	ALL SPECIES
SQUARE FEET PER ACRE				*THOUSAND CUBIC FEET*					
1-19	893	--	893	2,594	--	--	919	3,513	4,406
20-39	2,246	2,018	4,264	13,088	--	3,111	--	16,199	20,464
40-59	7,965	1,533	9,498	31,906	535	--	--	32,441	41,939
60-79	9,168	495	9,663	36,447	--	8,671	--	45,118	54,782
80-99	27,955	1,586	29,541	67,674	1,087	2,490	468	71,719	101,260
100-119	541	--	541	8,524	--	--	--	8,524	9,066
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	48,768	5,632	54,400	160,234	1,622	14,272	1,387	177,515	231,915

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 21--NET VOLUME OF SAWTIMBER ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

	SOFTWOODS			HARDWOODS					
BASAL AREA CLASS	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	ALL SPECIES
SQUARE FEET PER ACRE				*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*					
1-19	5,107	--	5,107	5,227	--	--	6,665	11,892	16,999
20-39	9,276	--	9,276	27,151	--	--	--	27,151	36,428
40-59	25,647	--	25,647	55,171	2,100	--	--	57,271	82,918
60-79	21,621	--	21,621	84,286	--	836	--	85,122	106,794
80-99	120,956	--	120,956	176,688	6,154	11,002	2,170	196,015	316,971
100-119	2,997	--	2,997	999	--	--	--	999	3,996
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	185,604	--	185,604	349,524	8,254	11,838	8,835	378,451	564,055

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 22--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND CUBIC FEET			
BLACK SPRUCE	647		--	647
WHITE SPRUCE	21	-	--	21
COTTONWOOD	-	--	--	--
ASPEN	673	--	--	673
BIRCH	5,231	864	--	6,095
ALL TYPES	6,572	864	--	7,436

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 23--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE			
BLACK SPRUCE	111	--	--	111
WHITE SPRUCE	131	--	--	131
COTTONWOOD	-	--	--	--
ASPEN	103	-	--	103
BIRCH	19,899	-	--	19,899
ALL TYPES	20,245	-	--	20,245

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 24--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	572	--	--	419	2,812	3,802
7.0-8.9	58	--	--	105	1,220	1,384
9.0-10.9	--	--	--	140	874	1,015
11.0-12.9	8	10	--	9	613	640
13.0-14.9	7	3	--	--	287	298
15.0-16.9	--	--	--	--	243	243
17.0-18.9	2	--	--	--	1/ -3	-1
19.0-20.9	--	5	--	--	27	31
21.0-22.9	--	--	--	--	11	11
23.0-24.9	--	--	--	--	4	4
25.0 AND LARGER	--	3	--	--	7	10
ALL CLASSES	647	21	--	673	6,095	7,436

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 25--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*			
9.0-10.9	--	--	--	75	1,660	1,735
11.0-12.9	53	57	--	28	14,360	14,498
13.0-14.9	47	25	--	--	1,991	2,062
15.0-16.9	--	--	--	--	1,538	1,538
17.0-18.9	12	--	--	--	36	48
19.0-20.9	--	29	--	--	160	190
21.0-22.9	--	--	--	--	77	77
23.0-24.9	--	--	--	--	23	23
25.0 AND LARGER	--	20	--	--	55	75
ALL CLASSES	111	131	--	103	19,899	20,245

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 26--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE	*THOUSAND CUBIC FEET*								
1-19	19	--	19	90	--	--	10	100	119
20-39	1/ -35	52	17	607	--	585	--	1,192	1,209
40-59	249	40	289	1,115	17	--	--	1,131	1,421
60-79	91	12	103	1,085	--	520	--	1,604	1,708
80-99	735	36	771	1,455	19	56	11	1,541	2,311
100-119	12	--	12	657	--	--	--	657	668
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	1,071	140	1,211	5,008	36	1,161	21	6,225	7,436

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 27--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*								
1-19	102	--	102	71	--	--	75	146	247
20-39	1/ -352	--	-352	460	--	--	--	460	108
40-59	607	--	607	107	109	--	--	216	823
60-79	461	--	461	2,599	--	28	--	2,627	3,087
80-99	2,657	--	2,657	12,739	135	295	68	13,236	15,893
100-119	70	--	70	16	--	--	--	16	86
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	3,545	--	3,545	15,991	244	323	142	16,700	20,245

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 28--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/			ALL CLASSES
	20-49	50-84	85-119	
INCHES AT BREAST HEIGHT	*THOUSAND CUBIC FEET*			
5.0-6.9	3,182	621	--	3,802
7.0-8.9	1,219	164	--	1,384
9.0-10.9	936	79	--	1,015
11.0-12.9	640	--	--	640
13.0-14.9	298	--	--	298
15.0-16.9	243	--	--	243
17.0-18.9	2/ -1	--	--	-1
19.0-20.9	31	--	--	31
21.0-22.9	11	--	--	11
23.0-24.9	4	--	--	4
25.0 AND LARGER	10	--	--	10
ALL CLASSES	6,572	864	--	7,436

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

2/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 29--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
INCHES AT BREAST HEIGHT	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*			
9.0-10.9	1,735	--	--	1,735
11.0-12.9	14,498	--	--	14,498
13.0-14.9	2,062	--	--	2,062
15.0-16.9	1,538	--	--	1,538
17.0-18.9	48	--	--	48
19.0-20.9	190	--	--	190
21.0-22.9	77	--	--	77
23.0-24.9	23	--	--	23
25.0 AND LARGER	75	--	--	75
ALL CLASSES	20,245	--	--	20,245

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 30--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND CUBIC FEET			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	--	--	--	--
COTTONWOOD	--	--	--	--
ASPEN	62	--	--	62
BIRCH	680	--	--	680
ALL TYPES	742	--	--	742

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 31--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	--	--	--	--
COTTONWOOD	--	--	--	--
ASPEN	--	--	--	--
BIRCH	1,668	--	--	1,668
ALL TYPES	1,668	--	--	1,668

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 32--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	--	--	--	--	149	149
7.0-8.9	--	--	--	62	66	128
9.0-10.9	--	--	--	--	93	93
11.0-12.9	--	--	--	--	215	215
13.0-14.9	--	--	--	--	86	86
15.0-16.9	--	--	--	--	--	--
17.0-18.9	--	--	--	--	70	--
19.0-20.9	--	--	--	--	--	--
21.0-22.9	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	--	--
ALL CLASSES	--	--	--	62	680	742

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 33--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*					
9.0-10.9	--	--	--	--	--	--
11.0-12.9	--	--	--	--	970	970
13.0-14.9	--	--	--	--	294	294
15.0-16.9	--	--	--	--	--	--
17.0-18.9	--	--	--	--	404	404
19.0-20.9	--	--	--	--	--	--
21.0-22.9	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	--	--
ALL CLASSES	--	--	--	--	1,668	1,668

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 34--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE	*THOUSAND CUBIC FEET*								
1-19	--	--	--	--	--	--	--	--	--
20-39	92	--	92	--	--	--	--	--	92
40-59	--	--	--	274	--	--	--	274	274
60-79	216	--	216	98	--	62	--	160	376
80-99	--	--	--	--	--	--	--	--	--
100-119	--	--	--	--	--	--	--	--	--
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	307	--	307	373	--	62	--	434	742

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 35--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*								
1-19	--	--	--	--	--	--	--	--	--
20-39	523	--	523	--	--	--	--	--	523
40-59	--	--	--	977	--	--	--	977	977
60-79	--	--	--	168	--	--	--	168	168
80-99	--	--	--	--	--	--	--	--	--
100-119	--	--	--	--	--	--	--	--	--
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	523	--	523	1,145	--	--	--	1.145	1,668

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 36--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
INCHES AT BREAST HEIGHT		*THOUSAND CUBIC FEET*		
5.0-6.9	149	--	--	149
7.0-8.9	128	--	--	128
9.0-10.9	93	--	--	93
11.0-12.9	215	--	--	215
13.0-14.9	86	--	--	86
15.0-16.9	--	--	--	--
17.0-18.9	70	--	--	70
19.0-20.9	--	--	--	--
21.0-22.9	--	--	--	--
23.0-24.9	--	--	--	--
25.0 AND LARGER	--	--	--	--
ALL CLASSES	742	--	--	742

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 37--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

DIAMETER CLASS	SITE CLASS (CUBIC FEET)1/ 20-49	50-84	85-119	ALL CLASSES
INCHES AT BREAST HEIGHT	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*			
1.0-2.9	--	--	--	--
3.0-4.9	--	--	--	--
5.0-6.9	--	--	--	--
7.0-8.9	--	--	--	--
9.0-10.9	--	--	--	--
11.0-12.9	970	--	--	970
13.0-14.9	294	--	--	294
15.0-16.9	--	--	--	--
17.0-18.9	404	--	--	404
19.0-20.9	--	--	--	--
21.0-22.9	--	--	--	--
23.0-24.9	--	--	--	--
25.0 AND LARGER	--	--	--	--
ALL CLASSES	1,668	--	--	1,668

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 38--NUMBER OF GROWING STOCK TREES, CUBIC-FOOT VOLUME PER ACRE, AND VOLUME PER ACRE IN INTERNATIONAL 1/4-INCH RULE ON TIMBERLAND AND ALL FOREST LAND BY FOREST TYPE, WILLOW BLOCK, SUSITNA UNIT, ALASKA, 1978

FOREST TYPE	TREES PER ACRE 1/	VOLUME PER ACRE	VOLUME PER ACRE
	NUMBER	*CUBIC FEET*	*BOARD FEET, INTERNATIONAL 1/4-INCH RULE*
TIMBERLAND:			
BLACK SPRUCE	143	559	525
WHITE SPRUCE	11	265	1,541
COTTONWOOD	--	--	--
ASPEN	238	1,046	296
BIRCH	136	1,052	2,710
ALL TIMBERLAND	138	1,007	2,450
FOREST LAND:			
BLACK SPRUCE	37	149	190
WHITE SPRUCE	58	565	2,248
COTTONWOOD	--	--	--
ASPEN	238	1,046	296
BIRCH	135	945	2,276
ALL FOREST LAND	90	578	1,308

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Trees 5.0 inches in d.b.h. and larger.

Metric Equivalents

1 inch = 25.4 millimeters (mm)
1 inch = 0.0254 meter (m)
1 foot = 0.3048 meter (m)
1 mile = 1.609 kilometers (km)
1 acre = 0.4047 hectare (ha)
1 cubic foot = 0.0283 cubic meter (m^3)
1 cubic foot per acre = 0.069 97 cubic meter per hectare (m^3/ha)
20 cubic feet per acre = 1.3994 cubic meters per hectare (m^3/ha)
1 square foot basal area per acre = 0.2296 square meter per hectare (m^2/ha)

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Setzer, Theodore S.; Mead, Bert R.; Carroll, Gary L. Timber resource statistics for the Willow block, Susitna River basin multiresource inventory unit, Alaska, 1978. Resour. Bull. PNW-114. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1984. 47 p.

A multiresource inventory of the Willow block, Susitna River basin inventory unit, was conducted in 1978. Statistics on forest area, timber volumes, and growth and mortality from this inventory are presented. Timberland area is estimated at 230,200 acres and net growing stock volume, mostly birch, at 231.9 million cubic feet. Net annual growth of growing stock is estimated at 7.4 million cubic feet and annual mortality at 742,000 cubic feet.

Keywords: Forest surveys, timber inventory, multiresource inventory, statistics (forest), resources (forest), Alaska (south-central), Alaska (Susitna River basin).

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Timber Resource Statistics for the Talkeetna Block, Susitna River Basin Multiresource Inventory Unit, Alaska, 1979

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Abstract

Setzer, Theodore S.; Carroll, Gary L.; Mead, Bert R. Timber resource statistics for the Talkeetna block, Susitna River basin multiresource inventory unit, Alaska, 1979. Resour. Bull. PNW-115. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1984. 47 p.

A multiresource inventory of the Talkeetna block, Susitna River basin inventory unit, was conducted in 1979. Statistics on forest area, timber volumes, and growth and mortality from this inventory are presented. Timberland area is estimated at 562,105 acres and net growing stock volume, mostly hardwood, at 574.7 million cubic feet. Net annual growth of growing stock is estimated at 13.6 million cubic feet and annual mortality at 2.7 million cubic feet.

Keywords: Forest surveys, timber inventory, multiresource inventory, statistics (forest), resources (forest), Alaska (south-central).

Summary

The Forest Inventory and Analysis (FIA) work unit of the Pacific Northwest Forest and Range Experiment Station conducted its first multiresource inventory for Alaska in the Susitna River basin. Field work began in 1978 in the Willow block. The 5,622,935-acre Talkeetna block was inventoried in 1979. The Talkeetna block lies north of Cook Inlet and is bounded on the north by the Alaska Range, the Talkeetna Mountains on the east, and by Mount Susitna, Beluga Mountain, and Yenlo Hills on the west.

Statistics on forest area, timber volumes, and net annual growth and mortality are presented from the 1979 multiresource inventory of the Talkeetna block. Timberland area is estimated at 562,105 acres and net growing stock volume at 574.7 million cubic feet. Net annual growth of growing stock is estimated at 13.6 million cubic feet and annual mortality at 2.7 million cubic feet.

Preface

Forest Inventory and Analysis is a nationwide project of the USDA Forest Service authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. Work units of the project, located at Forest Service Experiment Stations, conduct forest resource inventories throughout the 50 States. The Pacific Northwest Forest and Range Experiment Station at Portland, Oregon, is responsible for inventories in Alaska, California, Hawaii, Oregon, and Washington.

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Highlights [1/]

- Gross area of the Talkeetna block is 5,622,935 acres.

Area

- Forest land area is 1,799,299 acres, which is equivalent to 32.0 percent of the gross area in the block.

- Timberland accounts for 562,105 acres, or 31.2 percent of all forest land. Timberland is capable of producing 20 cubic feet or more of wood per acre per year.

- Birch is the predominant forest type, accounting for 847,018 acres and about 47 percent of the total forest land. The white spruce type follows with 459,756 acres and about 26 percent of the total forest land. The remaining 27 percent is in black spruce and cottonwood types.

- The predominant vegetation class is closed deciduous forest, old stands-deciduous/mixed. This class occupies 26.4 percent of the timberland and 23.9 percent of all forest land.

- Site class 4 land (capable of producing 20-49 cubic feet per acre per year) supports 97 percent of the timberland, or 30 percent of the total forest land, and averages 1,017 cubic feet of growing stock volume per acre.

Inventory

- Growing stock volume on timberland is 574.7 million cubic feet, with the majority of it, 72 percent, in sawtimber trees.

- Of the sound wood volume on timberland, 8.1 percent is from rough, rotten, and salvable dead trees, or 50.5 million cubic feet.

- Paper birch makes up 40 percent of the growing stock volume on timberland and 29 percent of the sawtimber volume. The remaining volume is mostly black cottonwood.

1/ Values presented in this section are estimates and are subject to sampling error.

- Average softwood growing stock volume per acre of timberland is 223 cubic feet and 980 board feet, International 1/4-inch rule. Hardwood growing stock volume equals 799 cubic feet and 2,813 board feet per acre.

- There are an average of 29 trees per acre of sawtimber-sized growing stock on timberland.

- There are an average of 217 trees per acre of growing stock less than sawtimber size on timberland.

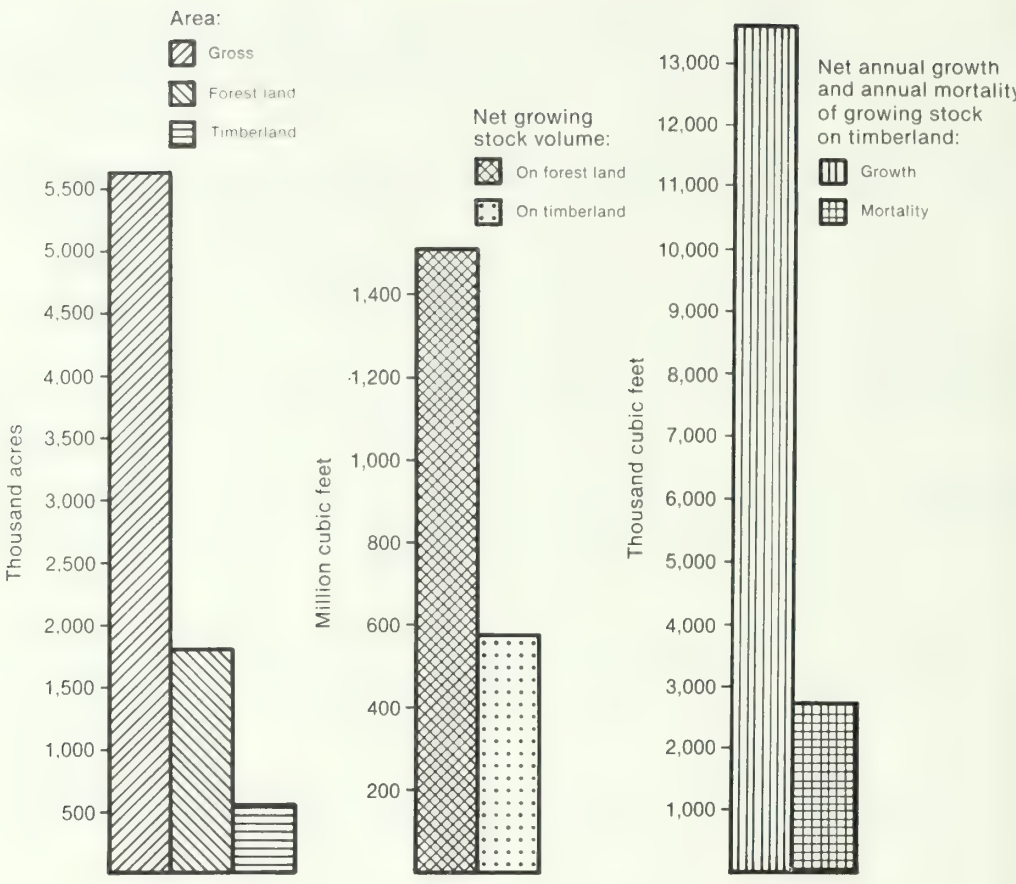
Growth

- Net annual growth of growing stock on timberland is 13.6 million cubic feet. Of the growing stock, 77 percent, or 10.5 million cubic feet, is in the birch type.

Mortality

- Annual mortality of growing stock on timberland is 2.7 million cubic feet.

Talkeetna Block at a Glance



Introduction

In 1977, the Alaska Forest Inventory and Analysis (FIA) work unit of the USDA Forest Service, Pacific Northwest Forest and Range Experiment Station, joined with other agencies to plan and conduct a multiresource inventory of the Susitna River basin in south-central Alaska. Cooperating agencies were the USDA Forest Service, Alaska Region, State and Private Forestry; USDA Soil Conservation Service; and the State of Alaska, Department of Natural Resources. This report deals with the timber resource. Other resources will be addressed in a joint publication being prepared by the Soil Conservation Service and FIA and scheduled for release in 1984.

The 5,622,900-acre Talkeetna block is part of the Susitna River basin multiresource inventory unit. The Susitna River basin is bordered on the north and west by the Alaska Range, on the south by Cook Inlet, and on the east by the Copper River plateau (figs. 1-3). The Talkeetna block is between 61°15' and 63°25' N. latitude, and 151°45' and 148°15' W. longitude. Major drainages in the block are the Susitna, Chulitna, Yentna, Kahiltna, Kashwitna, and Talkeetna Rivers.

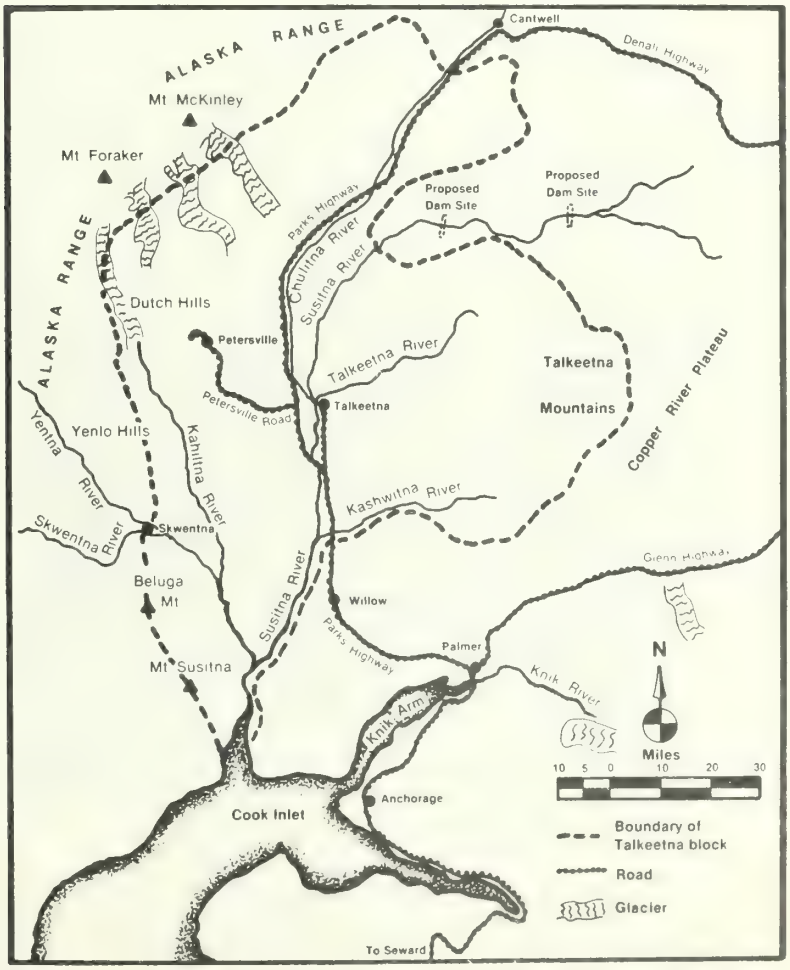


Figure 1.--Talkeetna block, Susitna River basin.

Figure 2.--Topography in the Talkeetna block includes large expanses of relatively flat land. Bogs, often vegetated by herbaceous plants or timbered with black spruce, frequently occur on poorly drained areas.

Figure 3.--Birch is the predominant forest type in the Talkeetna block, accounting for about 47 percent of all forest land. The type occurs as pure birch and also mixed, mostly with white spruce.

The Talkeetna block was the second portion of the Susitna unit to be inventoried. Fieldwork was conducted in 1979. Considerable development may occur in the block if the Susitna Hydroelectric Project, presently in the planning stage, is constructed. Several dam sites proposed for the Project are near the study area. Also, the town of Talkeetna is a major site for beginning and terminating climbs on Mount McKinley.

Inventory Procedures

Sampling strata for the Talkeetna block follow. Land cover/vegetation classes for all strata except water are detailed beginning on page 13.

Forest and woodland (greater than 10-percent tree crown cover):
- Stratum 1. Closed forest (greater than 50-percent tree crown cover)
- Stratum 2. Open forest (10- to 50-percent tree crown cover)

Nonforest (less than 10-percent tree crown cover):
- Stratum 3. Nonforest
- Stratum 4. Cultural influence
- Stratum 5. Nonvegetated-barren
- Stratum 6. Water

Forest, nonforest:
- Stratum 7. Unclassified.

Vegetation for the study area was mapped according to type on 1:120,000-scale color infrared aerial photography enlarged to approximately 1:60,000. This provided a stratum or polygon map that could be associated with estimates of mean volumes made for each stratum. A double sampling method was used to derive estimates (Bickford 1952).

To be mapped, type polygons had to be at least 5 acres in size. Each polygon was labeled with a primary vegetation type or land class code. Secondary and tertiary labels were added if a polygon contained small inclusions (less than 5 acres) of other vegetation.

Sampling of a representative number of type polygons followed, using a double sampling procedure. Primary aerial photo points were located at 3 000 meter Universal Transverse Mercator (UTM) intersections on 1:63,360-scale quadrangle maps of the U.S. Geological Survey. Next, these points were visually transferred to aerial photos. A sampling stratum for each point was then interpreted and a predominant vegetation type assigned to the usually circular, 5-acre area surrounding each point. Points for ground measurements were located in the same mapped polygons as the associated intersections of the grid.

Proportionally to the number of photo points in each type, 152 were selected for ground observation and measurements. Sample points were established in 10-point clusters and measured withi each 5-acre location. These measurements are the basis for the estimates given in this paper.2/

On forested points, measurements of trees larger than 5 inches in d.b.h. were made on variable radius plots using a nonmetric prism with 40 basal area factor. Trees less than 5 inches were measured on 1/300-acre, circular, fixed radius plots.

2/ Mead, Bert R. Field procedures for the cooperative vegetation inventory of the Susitna River basin, Alaska, Talkeetna block. Anchorage: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station, Forestry Sciences Laboratory; 1978. 151 p. Unpublished report.

Reliability of Inventory Data

Area and volume statistics reported here are estimates based on sampling and, therefore, are subject to sampling error. The reliability of the inventory is expressed in terms of relative sampling errors at the 68-percent confidence level:

	Design sampling error 3/	Sampling error achieved	Sampling error of the total estimate
		Percent	
Timberland area:			
Per million acres	3.0	12.6	
For the total 562,105 acres			±16.8
Other forest land area:			
Per million acres	10.0	12.5	
For the total 1,237,194 acres			±11.2
Net growing stock volume:			
Per billion ft^3	10.0	14.7	
For the total 574.668 million ft^3			±19.4
Net growth of growing stock:			
Per billion ft^3	10.0	2.6	
For the total 13.619 million ft^3			±22.4

The estimate of net growing stock volume for the Talkeetna block is 574.668 million cubic feet, ± 19.4 percent, yielding 68-percent confidence limits of 686.154 and 463.182 million cubic feet. A 68-percent confidence level means that if repeated samples are taken of this population, the total volume would be between 686.154 and 463.182 million cubic feet 68 percent of the time.

Design sampling errors for timberland area (3 percent), other forest land area (10 percent), and cubic-foot net growing stock volume (10 percent) were not met. Design sampling error for net growth (10 percent) was met.

3/ Forest Service Handbook 4813.1, Chapter 10, Operational Procedures 11.1--1; 1967.

Terminology [4/]

Acceptable trees--Trees meeting the specifications for growing stock but not qualifying as desirable trees.

Area condition class--Area condition class provides a general stratification of timberland by management opportunity class as indicated by the stocking or area controlled by tree and cover class.

Area condition class codes--

10 Areas 100 percent or more stocked with desirable trees and not overstocked. Stands in this category generally do not require any treatment at present to maintain high level of growth.

20 Areas 100 percent or more stocked with desirable trees and overstocked. Stands in this category need a treatment such as thinning to produce maximum levels of growth of desirable trees.

30 Areas 60 to 100 percent stocked with desirable trees, and with less than 30 percent of the area controlled by acceptable growing stock trees, inhibiting vegetation, slash, or nonstockable conditions. Stands in this category generally have conditions favorable for natural improvement of stocking without special treatment.

40 Areas 60 to 100 percent stocked with desirable trees and with 30 percent or more of the area controlled by other trees (or overstocked areas) or conditions that ordinarily prevent occupancy by desirable trees. Stands in this category generally have little prospect for improvement in desirable tree stocking without special treatment such as thinning or cull tree removal.

50 Areas less than 60 percent stocked with desirable trees but with 100 percent or more stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable tree stocking without special treatment. Stands almost to rotation age would usually not be treated.

4/ Terminology is from the manual of field procedures for the Susitna River basin inventory (see footnote 2), and Forest Service Handbook 4813.1 (see footnote 3).

60 Areas less than 60 percent stocked with desirable trees but with 60- to 100-percent stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable tree stocking without special treatment such as timber stand improvement or planting.

70 Areas less than 60 percent stocked with desirable trees and with less than 60-percent stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable tree or growing stock stocking without treatment such as site preparation or regeneration.

Basal area--A measure of square feet of space occupied by the stem of a tree at diameter breast height.

Census water--Streams, sloughs, estuaries, and canals more than one-eighth mile wide; and lakes, reservoirs, and ponds of more than 40 acres.

Commercial species--Tree species presently or potentially suitable for industrial wood products.

Cull material--Portions of a tree unusable for industrial products because of rot, form, or other defect.

Cull trees--Live trees of sawtimber or poletimber size that are not merchantable for saw logs now nor are they likely to become merchantable because of defect, rot, or species.

D.b.h.--Diameter at breast height, a point 4-1/2 feet above the ground on the uphill side of a tree, where, on a normally formed tree, the diameter is measured.

Desirable trees--Growing stock trees with no serious defects in quality limiting present or prospective use, relatively high vigor, and hosting no pathogens that could result in death or serious deterioration before rotation age. They include the type of trees forest managers aim to grow; that is, the trees left in silvicultural cutting or favored in cultural operations.

Diameter class--A classification of trees based on diameter of the trees outside the bark, measured at breast height (4-1/2 feet above the ground). Two-inch diameter classes are commonly used by FIA, with the even inch the approximate midpoint for a class.

Forest land--Land at least 16.7 percent stocked by forest trees of any size, or land formerly having such tree cover, and not currently developed for nonforest use.

Forest trees--Woody plants having a well-developed stem and usually more than 12 feet tall at maturity.

Forest types--A classification of forest land based on the species forming a plurality of the live tree stocking.

Black spruce--Forests in which a plurality of the stand is black spruce. Black spruce most often occurs in nearly pure stands but can be found mixed with tamarack, white spruce, paper birch, and aspen. Black spruce is fairly characteristic of poorer forest land.

White spruce--Forests in which a plurality of the stand is white spruce. Common associates include paper birch and balsam poplar, and occasionally black spruce or quaking aspen.

Balsam poplar--Forests in which a plurality of the stand is balsam poplar. South of the Alaska Range, balsam poplar may be replaced by black cottonwood or hybrids between the two. As the poplar ages, it is usually replaced by white spruce; however, it is usually found as a nearly pure type with only an occasional associate of white spruce or paper birch.

Black cottonwood--Forests in which a plurality of the stand is black cottonwood. Black cottonwood is found south of the Alaska Range in pure stands along major rivers. It hybridizes extensively with balsam poplar where their ranges overlap, and in this overlap area types are not easily distinguished by species but are usually reported as cottonwood/poplar. Black cottonwood stands are replaced by white spruce as they age and the pure stands contain only an occasional white spruce or paper birch.

Paper birch--Forests in which a plurality of the stand is paper birch. Paper birch can occur in pure stands but is more often mixed with white spruce, quaking aspen, or black spruce.

Quaking aspen--Forests in which a plurality of the stand is aspen. Aspen is usually found as a pure type following fire and a willow stage of succession. As the aspen ages, it is usually replaced by spruce except on very dry sites where it may remain as a pure type. Common associates include black spruce and white spruce and occasionally paper birch.

Gross growth--Annual increase in net volume of trees that have not been cut or have not died.

Growing stock trees--Sawtimber trees, poletimber trees, saplings, and seedlings; that is, all live trees except cull trees.

Growing stock volume--The net cubic foot volume of sound wood in the bole of growing stock trees 5.0 inches in d.b.h. and larger, from stump to a minimum 4.0-inch top outside the bark or to the point where the central stem breaks into limbs.

Hardwoods--Dicotyledenous trees, usually broadleaved and deciduous. Hardwood species in interior Alaska are balsam poplar, black cottonwood, paper birch, and quaking aspen.

Inoperable timberland--Forest land with a gross volume of less than 800 cubic feet per acre.

International 1/4-inch rule--A log rule using diameter and length to give yields of logs in board feet of lumber produced when 1-inch boards are cut. It assumes one-half inch of taper per 4 feet of log and a saw kerf of one-fourth inch.

Land area--Area reported as land by the Bureau of the Census. Total land area includes dry land and land temporarily or partially covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than 120 feet wide; and lakes, reservoirs, and ponds less than 1 acre in area.

Land class--A classification of land by the predominant vegetative cover on it, such as forest land. The minimum size area for classification is 1 acre.

Mean annual increment (MAI)--A measure of the volume of wood, in cubic feet, produced on 1 acre during 1 year. FIA minimum standard for timberland is the ability to produce at least 20 cubic feet per acre per year.

Mortality--Number of or the sound wood volume from live trees dying from natural causes during a specified period (5 years).

Net annual growth of growing stock--The annual change in volume of sound wood in live sawtimber and poletimber trees.

Net annual growth of sawtimber--The annual change in net board-foot volume of live sawtimber trees.

Net volume--The gross volume of a tree less deductions for rot, sweep, or other defect affecting product use.

Non-Census water--Streams, sloughs, estuaries, and canals between 120 feet and one-eighth mile wide; and lakes, reservoirs, and ponds between 1 and 40 acres in area.

Noncommercial species--Tree species of typically small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial wood products.

Nonforest land--Land that does not qualify as forest land. Includes land that has never supported forests and lands formerly forested where forest use is precluded by development for nonforest uses, such as crops, improved pasture, residential areas, and city parks. Also includes improved roads and certain areas of water classified by the Bureau of Census as land. Unimproved roads, streams, canals, and nonforest strips in forest areas must be more than 120 feet wide, and clearings in forest areas must be more than 1 acre in size to qualify as nonforest land.

Nonstockable land--Areas of forest land not capable of supporting forest growth because of rock, water, etc.

Nonstocked areas--Timberlands less than 16.7 percent stocked with growing stock trees.

Other forest land--Unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions (producing less than 20 cubic feet per acre per year). This includes sterile or poorly drained forest land, subalpine forests, and steep, rocky areas where topographic conditions are likely to prevent management for timber production. Also included is productive forest land withdrawn from commercial timber use by statute or administrative regulation.

Other forest land, inoperable--Other forest land with a gross volume less than 800 cubic feet per acre.

Other forest land, operable--Other forest land with a gross volume of 800 cubic feet or more per acre.

Overstocked areas--Areas where growth of trees is substantially reduced by excessive numbers of trees.

Poletimber stands--Stands at least 16.7 percent stocked with growing stock trees, with half or more of this stocking in poletimber and sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Poletimber trees--Growing stock trees 5.0 to 8.9 inches in d.b.h. for softwoods and 5.0 to 10.9 inches in d.b.h. for hardwoods.

Rotten trees--Live trees 5.0 inches in d.b.h. and larger that do not contain a saw log now and are not likely to, primarily because of rot.

Rough trees--Live trees 5.0 inches in d.b.h. and larger that do not contain a saw log now and are not likely to, primarily because of roughness, poor form, or because they are a noncommercial species.

Salvable dead trees--Standing dead trees that are considered currently or potentially merchantable by regional standards. A poletimber tree must be more than one-half sound, a sawtimber tree more than one-third sound (board measure).

Sapling trees--Trees 1.0 to 4.9 inches in d.b.h.

Saw log--A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum small-end diameter of 6 inches inside the bark for softwoods and 8 inches for hardwoods.

Saw-log portion--The bole of sawtimber trees between the stump and the saw-log top.

Saw-log top--The point on the bole of sawtimber trees above which a saw log cannot be produced. The minimum top diameter is 7.0 inches outside the bark for softwoods and 9.0 inches outside the bark for hardwoods.

Sawtimber stands--Stands at least 16.7 percent stocked with growing stock trees, with half or more of this stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to that of poletimber.

Sawtimber trees--Growing stock trees at least 9.0 inches in d.b.h. for softwoods and 11.0 inches in d.b.h. for hardwoods.

Sawtimber volume--The volume of sawtimber trees measured in board feet. Net volume equals gross volume less deductions for rot, sweep, crook, and other defects that affect use for lumber.

Seedling--An established tree less than 1.0 inch in d.b.h.

Seedling and sapling stands--Stands at least 16.7 percent stocked with growing stock trees and with seedlings and/or saplings comprising more than half of this stocking.

Site class--A classification of forest land based on its capacity to grow crops of industrial wood. Site classifications are based on the mean annual cubic-foot growth of growing stock attainable in fully stocked stands at culmination of mean annual increment.

Softwoods--Coniferous trees, usually evergreen with needles or scalelike leaves. Species in interior Alaska species are white spruce, black spruce, and tamarack.

Stand size class--A classification of forest land based on the predominant size of growing stock present: sawtimber, poletimber, or seedlings and saplings.

Stand volume class--A classification of forest land based on cubic-foot or board foot timber volume per acre.

Stocking--The degree of occupancy of land by trees, measured by basal area and/or the number of trees in a stand by size or age and spacing, compared with the basal area or number of trees required to fully utilize the growth potential of the land; that is, the stocking standard.

Timber class--A classification of trees based on characteristics of quality such as vigor, size of limbs and knots, and presence or absence of rot. Classes include growing stock; desirable and acceptable trees; and rough, rotten, and salvable dead trees.

Timberland--Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization. Areas qualifying as timberland could produce more than 20 cubic feet per acre per year of industrial wood under management.

Tree size class--A classification of trees based on the diameter of the tree at breast height.

Type map--A map showing classifications of vegetated and barren land, based on interpretation of aerial photographs. Like areas are delineated, labeled, and referred to as polygons.

Upper-stem portion--That part of the main stem or fork of sawtimber trees above the saw-log top to a minimum top diameter of 4.0 inches outside the bark or to the point where the main stem or fork breaks into limbs.

UTM--Universal transverse mercator grid system is a 1000-meter grid named for the map projection on which it is based. It consists of 60 grid zones, each 6° longitude in width. The origin of the grid zone lies at the intersection of the central meridian, which is a straight north-south line passing through Greenwich, England, and the equator, a straight east-west line. Grid lines within a zone are parallel and delineated on USGS quadrangle maps by blue tick marks on map margins.

Vegetation class--A classification of forest and nonforest vegetation based on species, canopy coverage, and height and/or age of vegetation. A classification system unique to FIA was developed for the Susitna River basin multiresource inventory. Classes are defined in the following section.

Water--See Census water and non-Census water.

Vegetation/Land Cover Classes

I. Forest and woodland (greater than 10-percent crown cover)

A. Closed coniferous forest (greater than 50-percent crown cover)

1. Short stands-white spruce. Main canopy usually less than 30 feet tall. Usually found at higher elevations as isolated pockets in areas dominated by alder; grassland; or open, mixed stands.

2. Tall stands-white spruce. Main canopy usually greater than 30 feet tall. Usually found at lower elevations on better sites; almost always found mixed with old and decadent, deciduous trees (very rarely found as a pure type in Susitna River basin).

3. Short stands-black spruce. Main canopy usually less than 30 feet tall. Generally found on wet and/or cold (poor) sites; may be found mixed with birch of poor quality but usually found as a pure type forming islands and stringers in bog areas or transition zones between bog area and forest areas. Understory is usually a thick moss and/or sedge mat.

4. Tall stands-black spruce. Main canopy usually greater than 30 feet tall. Can usually be identified as a fire-formed stand, on relatively good sites. Stands are remarkably pure, and the stocking density is usually quite high; may be found mixed with very scattered birch.

B. Closed deciduous forest (greater than 50-percent crown cover)

1. Young stands-deciduous/mixed. Canopy is usually very finely textured when viewed from above; openings in stands are very rare. Composed mostly of birch and/or aspen. This type very rarely mixed with other types except when found as a remnant condition in burned areas. Spruce is not usually evident as a component of the overstory in these young stands. Stands are 0-40 years old.

2. Medium age stands-deciduous/mixed. Canopy is usually fine textured when viewed from above; openings may be fairly common but are usually small. Vegetation elements of this type include birch, spruce, and aspen. Birch is usually found as a main component of this type, but percent composition may vary greatly depending on a number of factors: as the type increases in age, the percentage of white spruce as a crown component usually increases with the amount of understory and number of stand openings. Stands are 40-100 years old.

3. Old stands-deciduous/mixed. Canopy is usually somewhat coarse textured when viewed from above; openings are common and may appear in nearly half the stand. Canopy may also appear smooth, but openings appear as definite holes in the crown. Deciduous trees in these old stands are usually decadent. Spruce is often becoming the dominant species. The understory is usually visible from above and most commonly includes *Calamagrostis* sp. and *Alnus* sp. Stands are always older than 100 years.

4. Young stands-cottonwood. Most commonly found on new islands, downstream ends of old islands, and point bars of rivers. Cottonwood or poplar is usually mixed with large alder and/or willow; understory is sparse to nonexistent. Stands are 0-40 years old.

5. Medium age stands-cottonwood. Most commonly found within a mile of a river (alluvial soils). Stands are usually pure cottonwood or poplar; spacing is even and crown closure approaches 100 percent. Understory in the Susitna River basin is dominated by alder and devil's club. Stands are 40-100 years old.

6. Old stands-cottonwood. Most commonly found near rivers (alluvial soils). Stands may be mixed with young white spruce. Cottonwood trees are extremely large (30-40 inches in diameter) and decadent (larger trees may be only shells). Stands appear somewhat clumpy because of openings. Understory includes large quantities of alder, devil's club, and willow. Stands are older than 100 years.

C. Open coniferous forest (10- to 50-percent crown cover)

1. Short stands-white spruce. Usually found at higher elevations as a transition type between closed forest and high elevation, nonforest areas. Usually found mixed with vegetation elements of the higher elevation type: if the higher elevation type is a mixture of alder and grass, the open white spruce transition type will normally be forming a complex type with alder and grass. Trees are shorter than 30 feet.

2. Tall stands-white spruce. Same as short stands of white spruce normally found at lower elevations or on better sites. Commonly found in creek bottoms mixed with alder/willow and grass. Trees are taller than 30 feet.

3. Short stands-black spruce. Found in association with bog types. Black spruce trees are usually of very poor form. Site is either wet or cold or both. Trees are usually shorter than 15 feet tall.

D. Open deciduous forest (10- to 50-percent crown cover)

1. Medium age stands-deciduous/mixed. Similar to short stands of white spruce except normally found at lower elevations (as elevation increases, so does proportion of spruce in mixed types). Although birch/aspen stands are not usually found as a transition type between forest and high elevation, nonforest areas, they are often found just below areas of open, short white spruce. Stands are 0-40 years old.

2. Old stands-deciduous/mixed. Found in same general location as open, tall stands of white spruce. Found in association with grass and alder. Birch is usually found growing in very small, tight clumps. Spruce is usually found to have an open-grown form and is normally much younger than the hardwood component of the type.

3. Medium age stands-cottonwood. Usually found at tree line just above elevational limit of open white spruce. Found in pockets among low shrubs.

4. Old stands-cottonwood. Two elevational phases of this type seem to occur. The high elevation phase, consisting of balsam poplar, may be found mixed with streamside alder/willow along flowing water on high elevation flats. The low elevation phase, consisting of cottonwood, may be found on major river flood plains growing with a confusing mixture of other types such as open spruce, open birch, alder, and grass.

II. Nonforest (0- to 10-percent crown cover)

A. Tall shrub

1. Alder. This type is dominated by tall (10-15 feet) alder growing in dense thickets with grasses, ferns, and a great variety of forbs growing in the understory. Devil's club can be found as a dominant understory to the alder on wetter and steeper sites. Devil's club will normally exclude other understory vegetation. The type is found at or above tree line.

2. Alder willow (streamside vegetation). This type is dominated by a mixture of very large alder and willow and is normally found on frequently flooded ground such as new islands and point bars. Understory is sparse but may include *Equisetum* and *Calamagrostis*. This type is often found mixed with young, open cottonwood; in younger stands the cottonwood is almost indistinguishable from the willow and alder.

B. Low shrub (willow-resin birch)

This type is dominated by either willow or resin birch or a combination thereof. The type is often found in sheltered areas at high elevations such as draws in mountainous terrain. This type is found at and above the transition between tall shrubland and tundra.

C. Grassland (*Calamagrostis*)

This type is dominated by *Calamagrostis* 3-6 feet tall. Fireweed and various ferns are sometimes common. This type is most often found as an understory in the more open forest types and woodland areas where it is commonly associated with alder patches; it can also be found unassociated with other types along small streams.

D. Tundra

1. Sedge-grass tundra. This type is found above tree line on relatively flat, wet areas. Vegetation consists almost entirely of various wet sedges.

2. Herbaceous tundra. This type is found above tree line and is almost always found mixed with and above shrub tundra. The variety of species found is immense, consisting mainly of various grasses and forbs. Soil varies in depth and may be intermixed with rock outcroppings. Vegetation may not be continuous.

3. Shrub tundra. This type is dominated by dwarf shrub birch and ericaceous shrubs along with various short grasses and a large number of forbs. This type is almost always found mixed with and below herbaceous tundra. Density of the shrubs varies considerably and may often appear quite patchy.

4. Mat and cushion tundra. This type is dominated by such plants as dryas, crowberry, bearberry, sedge, grass, lichens, and low-growing forbs. Climatic conditions are extreme at the elevation where this type is found. Vegetation cover may be complete (closed mat cushion) or relatively sparse (scattered mat cushion) with a large percentage of the vegetation being lichens. This type is often mixed with rock.

E. Saltwater wetlands

1. Grassland. *Elymus*-dominated grassland in areas of tidal influence. Usually found at edge of normal high water in sandy soil, where the shoreline gradient is relatively steep, and as a belt of grass along the shore.

2. Low shrub. *Myrica*-dominated shrubland located on tidal flats. Water level is usually fluctuating seasonally. In areas that are more continuously wet, sedge replaces *Myrica* sp.

3. Tidal marsh. Usually found in areas with many shallow lakes and little topographic relief (within tidal influence). Vegetation is dominated by sedges. Woody plants may occur on the drier sedge and peat ridges that are common to this type.

F. Fresh water wetlands

1. *Sphagnum* bog. Cover is dominated by varying amounts of sedge, *Equisetum* and moss (especially *Sphagnum*). This type is usually found as a floating mat over several feet of water or as a thick mat directly over saturated or frozen soil. Shrubs and stunted trees (if present) may be found on drier peat ridges. This type is similar to tidal marsh except that shallow lakes are less common, the peat ridges form a more continuous and regular pattern and the type is found inland beyond tidal reach. Usually found as a pure type.

2. *Sphagnum*/shrub bog. Vegetation of this type is dominated by a thick moss mat (*Sphagnum*) and/or sedge tussocks. Grass, ericaceous shrubs, *Salix*, blueberry, and cranberry may also be present. Ground water level usually varies seasonally, but this type is usually not as wet as a *Sphagnum* bog. Usually mixed with open stands of short black spruce. Many other types may also be found in close association with this type; they are usually found on glacial moraines and eskers within the bog area.

III. Cultural influence

May be broadly defined as land that has been obviously affected by human activity. Includes agricultural land, urban areas, and land developed to support or provide services to agricultural and urban land. This "type" may be vegetated, but vegetation that is present may not be natural in either composition or spacing.

IV. Nonvegetated-barren

A. Mud flat. Confined to tidal areas (for example, Cook Inlet) and the mouths of major rivers. This "type" may appear vegetated on infrared and normal color photography or from the air, but the "vegetation" is usually algal blooms, and/or other sea plants. Mud flats are usually well patterned with ripple marks or water drainage patterns, are normally submersed during high tide, and may be used as resting and feeding areas by waterfowl.

B. Rock. Includes exposed bedrock and scree commonly found with mat and cushion tundra at high elevations. This "type" is also used to describe large landslides, fresh moraines, and other natural barren areas.

C. Snow field. High-elevation snow accumulation areas. Appears to be a permanent or nearly year-round part of the landscape. May be found as small pockets on slopes protected from the sun, on lee slopes, or in gulleys. Usually found over bare ground. Can be found over bare ground or mixed with mat and cushion tundra.

D. Glacier. Includes both icefields and glaciers. Usually found covering several square miles. Considered a permanent part of the landscape. This "type" covers much larger areas than does the snowfield type; crevasses, moraines, and other glacial features are usually present.

V. Unclassified

Locations or "points" that could not be classified because of cloud cover or deep shadows on the aerial photographs.

Names Of Trees

Common Name	Scientific Name 5/
Softwoods:	
Black spruce	*Picea mariana* (Mill.) B.S.P.
White spruce	*Picea glauca* (Moench) Voss
Hardwoods:	
Balsam poplar	*Populus balsamifera* L.
Black cottonwood	*Populus trichocarpa* Torr. and Gray
Paper birch	*Betula papyrifera* Marsh.
Quaking aspen	*Populus tremuloides* Michx.

5/ Scientific names are according to Viereck and Little (1972).

Tables

Estimates in this report are developed from statistically based samples and therefore are subject to sampling error. Sampling errors for estimates of various sizes are presented in the section "Reliability of Inventory Data."

TABLE 1--AREA BY VEGETATION/LAND COVER CLASS AND LAND CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

VEGETATION/ LAND COVER CLASS	LAND CLASS									
	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	NON-CENSUS WATER	TOTAL NONFOREST	CENSUS WATER	UNCLASSIFIED	ALL CLASSES
	ACRES									
CLOSED CONIFEROUS FOREST	--	59,328	--	59,328	--	--	--	--	--	59,328
CLOSED DECIDUOUS FOREST	355,968	308,366	118,656	782,990	--	--	--	--	--	782,990
OPEN FOREST	206,137	227,180	523,664	956,981	--	--	--	--	--	956,981
SHRUBLAND	--	--	--	--	669,833	--	669,833	--	--	669,833
GRASSLAND	--	--	--	--	93,572	--	93,572	--	--	93,572
TUNDRA	--	--	--	--	888,934	--	888,934	--	--	888,934
BOG	--	--	--	--	669,836	--	669,836	--	--	669,836
CULTURAL INFLUENCE	--	--	--	--	9,283	--	9,283	--	--	9,283
NONVEGETATED-BARREN	--	--	--	--	1,359,901	--	1,359,901	--	--	1,359,901
WATER	--	--	--	--	--	--	--	132,277	--	132,277
UNCLASSIFIED	--	--	--	--	--	--	--	--	--	--
ALL CLASSES	562,105	594,874	642,320	1,799,299	3,691,359	--	3,691,359	132,277	--	5,622,935

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 2--AREA OF FOREST LAND BY VEGETATION/LAND COVER CLASS, STAND SIZE CLASS, AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

VEGETATION/ LAND COVER CLASS AND STAND SIZE CLASS	SITE CLASS (CUBIC FEET) 1/ 1-9	10-14	15-19	20-49	50-84	UNCLASSIFIED	ALL CLASSES
				ACRES			
CLOSED CONIFEROUS FOREST, TALL STANDS-WHITE SPRUCE:							
SAWTIMBER	--	14,832	--	--	-	--	14,832
POLETIMBER	--	--	-	-	-	--	--
SEEDLING AND SAPLING	--	--	-	-	--	-	--
NONSTOCKED AREAS	-	--	-	--	--	--	--
TOTAL	--	14,832	--	--	--	--	14,832
CLOSED CONIFEROUS FOREST, SHORT STANDS-BLACK SPRUCE:							
SAWTIMBER	--	-	--	-	--	--	--
POLETIMBER	26,559	--	--	--	--	--	26,559
SEEDLING AND SAPLING	--	14,832	--	--	--	--	14,832
NONSTOCKED AREAS	--	-	--	-	-	--	--
TOTAL	26,559	14,832	-	-	--	--	41,391
CLOSED CONIFEROUS FOREST, TALL STANDS-BLACK SPRUCE:							
SAWTIMBER	--	--	-	-	-	--	--
POLETIMBER	14,832	29,664	--	--	--	-	44,496
SEEDLING AND SAPLING	--	--	-	-	--	--	--
NONSTOCKED AREAS	-	--	--	-	-	--	--
TOTAL	14,832	29,664	-	--	--	--	44,496
CLOSED DECIDUOUS FOREST, YOUNG STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	--	--	-	-	--	--	--
POLETIMBER	--	-	-	--	-	--	--
SEEDLING AND SAPLING	--	--	-	14,832	-	--	14,832
NONSTOCKED AREAS	-	-	--	--	--	--	--
TOTAL	--	--	--	14,832	-	--	14,832
CLOSED DECIDUOUS FOREST, MEDIUM AGE STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	--	--	29,664	14,832	-	--	44,496
POLETIMBER	-	14,832	44,495	88,991	14,832	-	163,151
SEEDLING AND SAPLING	-	14,832	-	--	--	--	14,832
NONSTOCKED AREAS	-	--	--	--	-	--	--
TOTAL	--	29,664	74,159	103,823	14,832	--	222,479
CLOSED DECIDUOUS FOREST, OLD STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	--	74,160	163,152	133,488	-	--	370,800
POLETIMBER	-	14,832	29,664	14,832	--	--	59,328
SEEDLING AND SAPLING	--	--	--	--	-	--	--
NONSTOCKED AREAS	-	--	--	--	--	--	--
TOTAL	--	88,992	192,816	148,320	-	--	430,128
CLOSED DECIDUOUS FOREST, MEDIUM AGE STANDS-COTTONWOOD:							
SAWTIMBER	--	--	--	44,496	-	--	44,496
POLETIMBER	-	--	-	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	-	--	--	--	--	--	--
TOTAL	--	--	--	44,496	--	--	44,496

See footnotes at end of table.

TABLE 2--AREA OF FOREST LAND BY VEGETATION/LAND COVER CLASS, STAND SIZE CLASS, AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979--CONTINUED

VEGETATION/ LAND COVER CLASS AND STAND SIZE CLASS	SITE CLASS (CUBIC FEET) 1/						
	1-9	10-14	15-19	20-49	50-84	UNCLASSIFIED	ALL CLASSES
				ACRES			
CLOSED DECIDUOUS FOREST, OLD STANDS-COTTONWOOD:							
SAWTIMBER	26,559	14,832		29,664			71,055
POLETIMBER							
SEEDLING AND SAPLING							
NONSTOCKED AREAS							
TOTAL	26,559	14,832		29,664			71,055
OPEN CONIFEROUS FOREST, SHORT STANDS-WHITE SPRUCE:							
SAWTIMBER							
POLETIMBER							
SEEDLING AND SAPLING	46,786						46,786
NONSTOCKED AREAS			46,786				46,786
TOTAL	46,786		46,786				93,572
OPEN CONIFEROUS FOREST, TALL STANDS-WHITE SPRUCE:							
SAWTIMBER		61,618	26,558	26,559		46,786	161,521
POLETIMBER		26,558					26,558
SEEDLING AND SAPLING							
NONSTOCKED AREAS			26,559				26,559
TOTAL		88,176	53,117	26,559		46,786	214,638
OPEN DECIDUOUS FOREST, MEDIUM AGE STANDS-DECIDUOUS/MIXED:							
SAWTIMBER			26,559				26,559
POLETIMBER							
SEEDLING AND SAPLING	26,558			73,344		46,786	146,688
NONSTOCKED AREAS							
TOTAL	26,558		26,559	73,344		46,786	173,247
OPEN DECIDUOUS FOREST, OLD STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	14,832	59,328	97,613	53,117			224,890
POLETIMBER		26,558	14,832				41,390
SEEDLING AND SAPLING							
NONSTOCKED AREAS		14,832					14,832
TOTAL	14,832	100,718	112,445	53,117			281,112
OPEN DECIDUOUS FOREST, MEDIUM AGE STANDS-COTTONWOOD:							
SAWTIMBER							
POLETIMBER		26,559					26,559
SEEDLING AND SAPLING							
NONSTOCKED AREAS							
TOTAL		26,559					26,559
OPEN DECIDUOUS FOREST, OLD STANDS-COTTONWOOD:							
SAWTIMBER			73,344	53,117			126,461
POLETIMBER							
SEEDLING AND SAPLING							
NONSTOCKED AREAS							
TOTAL			73,344	53,117			126,461
ALL CLASSES	156,126	408,269	579,227	547,273	14,832	93,572	1,799,299

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 3--AREA OF FOREST LAND BY FOREST TYPE, STAND SIZE CLASS, AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

FOREST TYPE AND STAND SIZE CLASS	SITE CLASS (CUBIC FEET) 1/ 1-9	10-14	15-19	20-49	50-84	UNCLASSIFIED	ALL CLASSES
				ACRES			
BLACK SPRUCE:							
SAWTIMBER	--	--	--	--	--	--	--
POLETIMBER	41,391	56,222	44,496	--	--	--	142,109
SEEDLING AND SAPLING	46,786	14,832	--	--	--	46,786	108,404
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	88,177	71,054	44,496	--	--	46,786	250,513
WHITE SPRUCE:							
SAWTIMBER	14,832	106,114	67,949	53,117	--	46,786	288,798
POLETIMBER	--	41,391	14,832	--	--	--	56,223
SEEDLING AND SAPLING	26,558	14,832	--	--	--	--	41,390
NONSTOCKED AREAS	--	--	73,345	--	--	--	73,345
TOTAL	41,390	162,337	156,126	53,117	--	46,786	459,756
COTTONWOOD:							
SAWTIMBER	26,559	14,832	73,344	100,719	--	--	215,454
POLETIMBER	--	26,558	-	--	--	--	26,558
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	26,559	41,390	73,344	100,719	--	--	242,012
BIRCH:							
SAWTIMBER	--	103,824	275,597	201,437	--	--	580,858
POLETIMBER	-	14,832	29,664	103,824	14,832	--	163,152
SEEDLING AND SAPLING	--	--	--	88,176	--	--	88,176
NONSTOCKED AREAS	--	14,832	--	--	--	--	14,832
TOTAL	--	133,488	305,261	393,437	14,832	--	847,018
ALL TYPES AND CLASSES	156,126	408,269	579,227	547,273	14,832	93,572	1,799,299

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 4--AREA OF TIMBERLAND BY CUBIC-FOOT STAND VOLUME CLASS AND FOREST TYPE, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

STAND VOLUME CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
CUBIC FEET PER ACRE			*ACRES*			
0-299	--	--	--	--	76,450	76,450
300-799	--	26,558	14,832	--	97,613	139,003
800-1,499	--	26,559	14,832	--	189,710	231,101
1,500-2,199	--	--	29,664	--	29,664	59,328
2,200 AND MORE	--	--	41,391	--	14,832	56,223
ALL CLASSES	--	53,117	100,719	--	408,269	562,105

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 5--AREA OF TIMBERLAND BY STAND VOLUME CLASS, INTERNATIONAL 1/4-INCH RULE, AND FOREST TYPE, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

STAND VOLUME CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
BOARD FEET PER ACRE, INTERNATIONAL 1/4-INCH RULE			*ACRES*			
0-299	--	--	--	--	29,664	29,664
300-799	--	--	--	--	106,114	106,114
800-1,499	--	--	--	--	29,664	29,664
1,500-2,199	--	26,559	--	--	41,390	67,949
2,200-2,999	--	--	--	--	56,223	56,223
3,000-4,999	--	--	29,664	--	115,550	145,214
5,000-6,999	--	26,553	--	--	14,832	41,390
7,000 AND OVER	--	--	71,055	--	14,832	85,887
ALL CLASSES	--	53,117	100,719	--	408,269	562,105

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 6--AREA OF TIMBERLAND BY CUBIC-FOOT STAND VOLUME CLASS AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

STAND VOLUME CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
CUBIC FEET PER ACRE		*ACRES*		
0-299	76,450	-	--	76,450
300-799	139,004	-	--	139,004
800-1,499	216,269	14,832	--	231,101
1,500-2,199	59,328	-	--	59,328
2,200 AND OVER	56,222	-	--	56,222
ALL CLASSES	547,273	14,832	--	562,105

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 7--AREA OF TIMBERLAND BY AREA CONDITION CLASS AND FOREST TYPE, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

AREA CONDITION CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
			ACRES			
10 and 20	--	--	--	--	--	--
30 and 40	--	--	--	--	41,390	41,390
50	--	--	--	--	88,992	88,992
60	--	--	71,055	--	171,773	242,828
70	--	53,117	29,664	--	106,114	188,895
ALL CLASSES	--	53,117	100,719	--	408,269	562,105

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 8--NUMBER OF GROWING STOCK TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
INCHES AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	13,069	2,670	15,739	22,982	797	--	8,991	32,770	48,509
3.0-4.9	11,921	445	12,366	20,540	--	--	1,242	21,782	34,148
5.0-6.9	2,555	1,450	4,005	14,842	--	1,475	418	16,735	20,740
7.0-8.9	3,160	702	3,862	7,587	--	1,444	376	9,407	13,269
9.0-10.9	2,030	--	2,030	4,583	--	488	422	5,494	7,524
11.0-12.9	1,469	--	1,469	3,362	--	488	240	4,090	5,559
13.0-14.9	916	--	916	2,320	--	--	613	2,933	3,849
15.0-16.9	404	--	404	731	--	--	481	1,212	1,616
17.0-18.9	521	--	521	451	--	--	529	980	1,501
19.0-20.9	--	--	--	135	--	--	271	406	406
21.0-22.9	22	--	22	22	--	--	270	293	314
23.0-24.9	35	--	35	18	--	--	237	256	290
25.0-26.9	--	--	--	31	--	--	170	201	201
27.0-28.9	--	--	--	--	--	--	96	96	96
29.0-30.9	--	--	--	--	--	--	174	174	174
31.0-32.9	--	--	--	--	--	--	32	32	32
33.0-34.9	--	--	--	--	--	--	19	19	19
35.0-36.9	--	--	--	--	--	--	--	--	--
37.0-38.9	--	--	--	--	--	--	8	8	8
39.0 AND LARGER	--	--	--	4	--	--	13	17	17
ALL CLASSES	36,102	5,267	41,369	77,608	797	3,895	14,605	96,905	138,274

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 9--NUMBER OF ROUGH TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
INCHES AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	3,115	890	4,005	7,609	--	--	--	7,609	11,613
3.0-4.9	--	890	890	1,335	--	--	--	1,335	2,225
5.0-6.9	876	--	876	--	--	--	--	--	876
7.0-8.9	179	--	179	166	--	--	--	166	345
9.0-10.9	--	--	--	128	--	--	--	128	128
11.0-12.9	--	--	--	899	--	--	257	1,156	1,156
13.0-14.9	--	--	--	174	--	--	51	225	225
15.0-16.9	--	--	--	131	--	--	235	366	366
17.0-18.9	--	--	--	135	--	--	99	234	234
19.0-20.9	--	--	--	53	--	--	77	130	130
21.0-22.9	--	--	--	--	--	--	172	172	172
23.0-24.9	--	--	--	--	--	--	89	89	89
25.0-26.9	--	--	--	--	--	--	32	32	32
27.0-28.9	--	--	--	--	--	--	24	24	24
29.0-30.9	--	--	--	--	--	--	55	55	55
31.0-32.9	--	--	--	--	--	--	--	--	--
33.0-34.9	--	--	--	--	--	--	--	--	--
35.0-36.9	--	--	--	--	--	--	--	--	--
37.0-38.9	--	--	--	--	--	--	--	--	--
39.0 AND LARGER	--	--	--	--	--	--	--	--	--
ALL CLASSES	4,169	1,780	5,949	10,629	--	--	1,091	11,720	17,669

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 10--NUMBER OF ROTTEN TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

	SOFTWOODS			HARDWOODS					
DIAMETER CLASS	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	ALL SPECIES
INCHES AT BREAST HEIGHT					*THOUSAND TREES*				
1.0-2.9	--	--	--	--	--	--	--	--	--
3.0-4.9	--	--	--	--	--	--	--	--	--
5.0-6.9	--	--	--	--	--	--	--	--	--
7.0-8.9	--	--	--	550	--	--	--	550	550
9.0-10.9	--	--	--	232	--	--	--	232	232
11.0-12.9	--	--	--	155	--	--	--	155	155
13.0-14.9	--	--	--	210	--	--	--	210	210
15.0-16.9	--	--	--	246	--	--	--	246	246
17.0-18.9	--	--	--	130	--	--	33	163	163
19.0-20.9	--	--	--	132	--	--	--	132	132
21.0-22.9	--	--	--	24	--	--	--	24	24
23.0-24.9	--	--	--	--	--	--	21	21	21
25.0-26.9	--	--	--	--	--	--	16	16	16
27.0-28.9	--	--	--	--	--	--	--	--	--
29.0-30.9	--	--	--	--	--	--	24	24	24
31.0-32.9	--	--	--	--	--	--	--	--	--
33.0-34.9	--	--	--	--	--	--	27	27	27
35.0-36.9	--	--	--	--	--	--	9	9	9
37.0-38.9	--	--	--	--	--	--	--	--	--
39.0 AND LARGER	--	--	--	--	--	--	--	--	--
ALL CLASSES	--	--	--	1,679	--	--	130	1,809	1,809

Estimates are subject to sampling error

Totals may be off because of rounding.

-- = no data were collected.

TABLE 11--NUMBER OF LIVE TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

	SOFTWOODS			HARDWOODS					
DIAMETER CLASS	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	ALL SPECIES
INCHES AT BREAST HEIGHT					*THOUSAND TREES*				
1.0-2.9	16,184	3,560	19,744	30,591	797	--	8,991	40,379	60,122
3.0-4.9	11,921	1,335	13,256	21,875	--	--	1,242	23,117	36,373
5.0-6.9	3,430	1,450	4,881	14,842	--	1,475	418	16,735	21,616
7.0-8.9	3,339	702	4,041	8,303	--	1,444	376	10,123	14,164
9.0-10.9	2,030	--	2,030	4,944	--	488	422	5,854	7,884
11.0-12.9	1,469	--	1,469	4,416	--	488	497	5,402	6,870
13.0-14.9	916	--	916	2,704	--	--	664	3,368	4,284
15.0-16.9	404	--	404	1,108	--	--	716	1,824	2,228
17.0-18.9	521	--	521	716	--	--	661	1,377	1,898
19.0-20.9	--	--	--	319	--	--	349	668	668
21.0-22.9	22	--	22	46	--	--	442	488	510
23.0-24.9	35	--	35	18	--	--	347	366	400
25.0-26.9	--	--	--	31	--	--	218	248	248
27.0-28.9	--	--	--	--	--	--	120	120	120
29.0-30.9	--	--	--	--	--	--	254	254	254
31.0-32.9	--	--	--	--	--	--	32	32	32
33.0-34.9	--	--	--	--	--	--	46	46	46
35.0-36.9	--	--	--	--	--	--	9	[illegible]	9
37.0-38.9	--	--	--	--	--	--	8	8	[illegible]
39.0 AND LARGER	--	--	--	4	--	--	13	17	17
ALL CLASSES	40,271	7,047	47,419	89,917	797	3,895	15,825	110,435	157,751

Estimates are subject to sampling error

Totals may be off because of rounding

-- = no data were collected

TABLE 12--NET VOLUME OF GROWING STOCK BY FOREST TYPE AND LAND CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

FOREST TYPE	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	ALL CLASSES
			THOUSAND CUBIC FEET			
BLACK SPRUCE	--	79,954	42,418	122,371	--	122,371
WHITE SPRUCE	39,291	86,348	118,899	244,538	--	244,538
COTTONWOOD	186,289	203,557	--	389,846	--	389,846
BIRCH	349,088	320,093	77,059	746,239	12,720	758,959
UNCLASSIFIED	--	--	--	--	18,576	18,576
ALL TYPES	574,668	689,951	238,375	1,502,995	31,296	1,534,291

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 13--NET VOLUME OF SAWTIMBER BY FOREST TYPE AND LAND CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

FOREST TYPE	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	ALL CLASSES
			THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE			
BLACK SPRUCE	--	82,375	57,261	139,636	--	139,636
WHITE SPRUCE	207,475	309,919	470,563	987,958	--	987,958
COTTONWOOD	935,621	957,318	--	1,892,940	--	1,892,940
BIRCH	988,852	1,040,394	241,827	2,271,073	75,924	2,346,997
UNCLASSIFIED	--	--	--	--	50,852	50,852
ALL TYPES	2,131,948	2,390,006	769,651	5,291,607	126,776	5,418,383

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 14--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	--	--	817	--	40,873	41,690
7.0-8.9	--	1,715	1,496	--	64,978	68,189
9.0-10.9	--	--	6,022	--	65,267	71,289
11.0-12.9	--	7,529	4,532	--	64,279	76,340
13.0-14.9	--	10,747	16,682	--	50,454	77,883
15.0-16.9	--	--	15,954	--	32,699	48,653
17.0-18.9	--	16,763	25,654	--	15,254	57,671
19.0-20.9	--	--	13,917	--	3,287	17,204
21.0-22.9	--	--	20,110	--	3,098	23,208
23.0-24.9	--	2,536	23,893	--	251	26,680
25.0-26.9	--	--	19,256	--	1,171	20,427
27.0-28.9	--	--	10,731	--	--	10,731
29.0-30.9	--	--	17,698	--	3,002	20,700
31.0-32.9	--	--	4,674	--	--	4,674
33.0-34.9	--	--	3,524	--	--	3,524
35.0-36.9	--	--	--	--	--	--
37.0-38.9	--	--	1,330	--	--	1,330
39.0 AND LARGER	--	--	--	--	4,473	4,473
ALL CLASSES	--	39,291	186,289	--	349,088	574,668

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 15--NET VOLUME OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT		*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*				
9.0-10.9	--	--	--	--	113,568	113,568
11.0-12.9	--	43,803	14,998	--	283,079	341,880
13.0-14.9	--	57,999	71,110	--	249,241	378,350
15.0-16.9	--	--	77,525	--	172,811	250,336
17.0-18.9	--	92,994	127,780	--	77,683	298,457
19.0-20.9	--	--	76,119	--	19,727	95,846
21.0-22.9	--	--	115,124	--	18,708	133,832
23.0-24.9	--	13,680	130,516	-	2,191	146,387
25.0-26.9	--	--	108,888	--	7,027	115,915
27.0-28.9	--	--	60,825	--	--	60,825
29.0-30.9	--	--	96,800	-	16,788	113,588
31.0-32.9	--	--	27,160	--	--	27,160
33.0-34.9	--	-	21,463	--	--	21,463
35.0-36.9	--	--	--	--	--	--
37.0-38.9		--	7,312	--	--	7,312
39.0 AND LARGER	--	--	--	--	28,029	28,029
ALL CLASSES	--	207,475	935,621	--	988,852	2,131,948

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 16--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT STAND VOLUME CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	STAND VOLUME CLASS (CUBIC FEET PER ACRE)					
	0-299	300-799	800-1,499	1,500-2,199	2,200 AND MORE	ALL CLASSES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	1,829	2,100	29,951	6,371	1,440	41,691
7.0-8.9	2,875	9,742	38,270	10,602	6,700	68,189
9.0-10.9	3,826	16,467	34,650	11,010	5,337	71,289
11.0-12.9	--	15,396	38,021	18,181	4,742	76,340
13.0-14.9	--	11,712	34,779	10,485	20,907	77,883
15.0-16.9	5,407	13,385	10,166	8,196	11,499	48,653
17.0-18.9	--	8,928	19,460	4,147	25,137	57,671
19.0-20.9	--	3,493	2,319	3,006	8,385	17,204
21.0-22.9	--	771	4,054	7,225	11,159	23,209
23.0-24.9	--	--	4,771	3,305	18,603	26,679
25.0-26.9	--	998	1,171	5,405	12,854	20,426
27.0-28.9	--	--	1,740	5,961	3,029	10,731
29.0-30.9	--	--	7,211	--	13,489	20,701
31.0-32.9	--	--	1,079	3,595	--	4,674
33.0-34.9	--	--	1,752	1,772	--	3,524
35.0-36.9	--	--	--	--	--	--
37.0-38.9	--	--	1,330	--	--	1,330
39.0 AND LARGER	--	1,427	2,263	783	--	4,473
ALL CLASSES	13,937	84,419	232,987	100,044	143,281	574,668

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 17--NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

TIMBER CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND CUBIC FEET			
SAWTIMBER TREES:				
SAW-LOG PORTION	369,248	3,337	--	372,585
UPPER STEM PORTION	39,775	1,259	--	41,033
TOTAL	409,023	4,596	--	413,619
POLETIMBER TREES	147,353	13,697	--	161,050
ALL GROWING STOCK	556,376	18,293	--	574,668
ROUGH TREES:				
SAWTIMBER	37,401	--	--	37,401
POLETIMBER	2,315	--	--	2,315
TOTAL	39,716	--	--	39,716
ROTTEN TREES:				
SAWTIMBER	9,852	--	--	9,852
POLETIMBER	607	--	--	607
TOTAL	10,459	--	--	10,459
SALVABLE DEAD TREES:				
SAWTIMBER	--	--	--	--
POLETIMBER	349	--	--	349
TOTAL	349	--	--	349
ALL CLASSES	606,900	18,293	--	625,193

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 18--NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND DIAMETER CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

TIMBER CLASS	DIAMETER CLASS (INCHES AT BREAST HEIGHT)									
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	23.0-24.9
	THOUSAND CUBIC FEET									
SAWTIMBER TREES:										
SAW-LOG PORTION	--	--	17,545	58,960	67,904	44,474	54,407	16,300	22,438	26,062
UPPER STEM PORTION	--	--	2,574	17,380	9,980	4,179	3,264	905	770	617
TOTAL	--	--	20,119	76,340	77,883	48,653	57,671	17,204	23,209	26,679
POLETIMBER TREES	41,691	68,189	51,170	--	--	--	--	--	--	--
ALL GROWING STOCK	41,691	68,189	71,289	76,340	77,883	48,653	57,671	17,204	23,209	26,679
ROUGH TREES:										
SAWTIMBER	--	--	--	7,663	1,924	6,883	3,349	3,057	5,726	2,062
POLETIMBER	1,025	849	441	--	--	--	--	--	--	--
TOTAL	1,025	849	441	7,663	1,924	6,883	3,349	3,057	5,726	2,062
ROTTEN TREES:										
SAWTIMBER	--	--	--	403	308	1,585	861	1,236	485	133
POLETIMBER	--	326	281	--	--	--	--	--	--	--
TOTAL	--	326	281	403	308	1,585	861	1,236	485	133
SALVABLE DEAD TREES:										
SAWTIMBER	--	--	--	--	--	--	--	--	--	--
POLETIMBER	349	--	--	--	--	--	--	--	--	--
TOTAL	349	--	--	--	--	--	--	--	--	--
ALL CLASSES	43,064	69,365	72,011	84,407	80,115	57,121	61,882	21,497	29,419	28,874

See notes at end of table.

TABLE 18--NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND DIAMETER CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979--CONTINUED

TIMBER CLASS	DIAMETER CLASS (INCHES AT BREAST HEIGHT)								
	25.0-26.9	27.0-28.9	29.0-30.9	31.0-32.9	33.0-34.9	35.0-36.9	37.0-38.9	39.0 AND LARGER	ALL CLASSES
	THOUSAND CUBIC FEET								
SAWTIMBER TREES:									
SAWLOG PORTION	19,952	10,516	20,309	4,585	3,457	--	1,305	4,372	372,585
UPPER STEM PORTION	475	214	392	89	67	--	25	101	41,033
TOTAL	20,426	10,731	20,701	4,674	3,524	--	1,330	4,473	413,619
POLETIMBER TREES	-	--	--	--	-	--	--	--	161,050
ALL GROWING STOCK	20,426	10,731	20,701	4,674	3,524	-	1,330	4,473	574,668
ROUGH TREES:									
SAWTIMBER	1,286	1,809	3,642	-	-	--	--	--	37,401
POLETIMBER	-	--	-	--	-	--	--	--	2,315
TOTAL	1,286	1,809	3,642	-	--	--	--	--	39,716
ROTTEN TREES:									
SAWTIMBER	624	-	1,152	--	2,579	487	--	--	9,852
POLETIMBER	-	--	--	--	--	--	--	--	607
TOTAL	624	--	1,152	--	2,579	487	--	--	10,459
SALVABLE DEAD TREES:									
SAWTIMBER	-	-	--	--	--	--	--	--	--
POLETIMBER	-	--	--	--	--	--	--	--	349
TOTAL	-	--	--	--	--	--	--	--	349
ALL CLASSES	22,336	12,540	25,495	4,674	6,102	487	1,330	4,473	625,193

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 19--NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND SPECIES, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

TIMBER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
	THOUSAND CUBIC FEET								
SAWTIMBER TREES:									
SAW-LOG PORTION	92,228	-	92,228	97,605	--	6,742	176,011	280,358	372,585
UPPER STEM PORTION	6,086	--	6,086	22,452	-	2,101	10,395	34,947	41,033
TOTAL	98,314	--	98,314	120,056	--	8,842	186,407	315,305	413,619
POLETIMBER TREES	21,250	5,730	26,980	109,699	-	16,507	7,864	134,070	161,050
ALL GROWING STOCK	119,564	5,730	125,294	229,755	--	25,349	194,271	449,375	574,668
ROUGH TREES:									
SAWTIMBER	-	--	--	9,237	-	--	28,165	37,401	37,401
POLETIMBER	1,492		1,492	823	--	--	--	823	2,315
TOTAL	1,492	--	1,492	10,060	-	--	28,165	38,225	39,716
ROTTEN TREES:									
SAWTIMBER	--	--		4,437	--	--	5,415	9,852	9,852
POLETIMBER	--	--	--	607	-	-	--	607	607
TOTAL	--	--	--	5,044		--	5,415	10,459	10,459
SALVABLE DEAD TREES:									
SAWTIMBER	--	--	--	--	--	--	--	--	--
POLETIMBER	-	--	--	349	--	--	--	349	349
TOTAL	--	--	--	349	-	--	--	349	349
ALL CLASSES	121,056	5,730	126,786	245,208	--	25,349	227,850	498,407	625,193

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 20--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE				*THOUSAND CUBIC FEET*					
1-19	4,360	—	4,360	1,492		--	--	1,492	5,852
20-39	21,822		21,822	12,487	--	--	1,427	13,914	35,736
40-59	56,518	--	56,518	44,125	--	--	31,942	76,067	132,585
60-79	24,162	3,174	27,337	84,772	--	7,382	52,469	144,623	171,960
80-99	5,306	2,556	7,862	59,896	-	17,967	108,432	186,295	194,156
100-119	7,396	--	7,396	26,983		--	—	26,983	34,379
120 AND OVER	--	--	--	-	--	--	--	--	--
ALL CLASSES	119,564	5,730	125,294	229,756	-	25,349	194,270	449,375	574,668

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 21--NET VOLUME OF SAWTIMBER ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

BASAL AREA CLASS	SOFTWOODS: WHITE SPRUCE	SOFTWOODS: BLACK SPRUCE	SOFTWOODS: TOTAL SOFTWOODS	HARDWOODS: PAPER BIRCH	HARDWOODS: BALSAM POPLAR	HARDWOODS: QUAKING ASPEN	HARDWOODS: BLACK COTTONWOOD	HARDWOODS: TOTAL HARDWOODS	ALL SPECIES
SQUARE FEET PER ACRE	*THOUSAND BOARD FEET, INTERNATIONAL 1/4 INCH RULE*								
1-19	24,899	-	24,899	--	-	-	--	--	24,899
20-39	93,012	-	93,012	25,398	-	-	8,975	34,373	127,385
40-59	298,816	-	298,816	151,679	-	-	154,717	306,396	605,212
60-79	84,298	-	84,298	165,469	-	4,970	262,563	433,002	517,300
80-99	26,865	-	26,865	125,401	-	30,788	557,882	714,072	740,937
100-119	23,031	-	23,031	93,185	--	-	--	93,185	116,216
120 AND OVER	--	-	-	-	-	-	--	--	--
ALL CLASSES	550,921	-	550,921	561,132	-	35,758	984,137	1,581,027	2,131,948

Estimates are subject to sampling error.

Totals may be off because of rounding.

- = no data were collected

TABLE 22--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/: 20-49	50-84	85-119	ALL CLASSES
	THOUSAND CUBIC FEET			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	939	--	--	939
COTTONWOOD	2,222	--	--	2,222
BIRCH	9,127	1,332	--	10,459
ALL TYPES	12,288	1,332	--	13,619

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 23--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	4,571	--	--	4,571
COTTONWOOD	14,537	--	--	14,537
BIRCH	43,290	9,829	--	53,119
ALL TYPES	62,398	9,829	--	72,227

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 24--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	--	--	380	-	5,051	5,431
7.0-8.9	--	79	141		2,188	2,408
9.0-10.9	--	--	183	--	1,634	1,817
11.0-12.9	--	209	128	--	1,292	1,629
13.0-14.9	--	305	326	--	454	1,085
15.0-16.9	--	--	1/ -51	--	409	358
17.0-18.9	--	290	-63	--	142	369
19.0-20.9	--	--	-99	--	-272	-371
21.0-22.9	--	--	140	--	-192	-52
23.0-24.9	--	56	381	--	1	438
25.0-26.9	--	--	270	--	-296	-26
27.0-28.9	--	--	169	--	--	169
29.0-30.9	--	--	148	--	28	176
31.0-32.9	--	--	96	-	--	96
33.0-34.9	--	--	54	-	--	54
35.0-36.9	--	--	--	--	--	--
37.0-38.9	--	--	18	--	--	18
39.0 AND LARGER	--	--	--	--	19	19
ALL CLASSES	--	939	2,222	--	10,459	13,619

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 25--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*					
9.0-10.9	--	--	--	--	3,678	3,678
11.0-12.9	--	1,078	5,141	--	47,291	53,510
13.0-14.9	--	1,639	1,912	--	3,018	6,569
15.0-16.9	--	--	36	--	2,529	2,565
17.0-18.9	--	1,556	--	--	864	2,420
19.0-20.9	--	--	1/ -442	--	-1,629	-2,071
21.0-22.9	--	--	1,027	--	-1,256	-229
23.0-24.9	--	297	2,257	--	13	2,567
25.0-26.9	--	--	1,649	--	-1,679	-30
27.0-28.9	--	--	1,046	--	--	1,046
29.0-30.9	--	--	843	--	165	1,008
31.0-32.9	--	--	617	--	--	617
33.0-34.9	--	--	352	--	--	352
35.0-36.9	--	--	--	--	--	--
37.0-38.9	--	--	101	--	--	101
39.0 AND LARGER	--	--	--	--	125	125
ALL CLASSES	--	4,571	14,537	--	53,119	72,227

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 26--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

	SOFTWOODS			HARDWOODS					
BASAL AREA CLASS	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	ALL SPECIES
SQUARE FEET PER ACRE	*THOUSAND CUBIC FEET*								
1-19	40	-	40	13	--	--	--	13	53
20-39	401	-	401	780	--	-	10	791	1,192
40-59	1,503	--	1,503	923	--	--	377	1,300	2,803
60-79	400	208	608	2,981	--	297	1,052	4,330	4,938
80-99	150	70	219	2,045	-	992	827	3,864	4,083
100-119	120	-	120	430	-	-	--	430	550
120 AND OVER	-	--	--	--	--	--	--	--	--
ALL CLASSES	2,614	278	2,891	7,172	--	1,289	2,266	10,728	13,619

Estimates are subject to sampling error.

Totals may be off because of rounding.

- = no data were collected.

TABLE 27--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE	*THOUSAND BOARD FEET INTERNATIONAL 1/4-INCH RULE*								
1-19	229	--	229	--	--	--	--	--	229
20-39	430	--	430	531	--	--	68	599	1,029
40-59	6,882	--	6,882	8,446	--	--	1,904	10,351	17,232
60-79	126	--	126	11,575	--	136	8,141	19,853	19,979
80-99	731	--	731	14,095	--	12,278	4,938	31,311	32,042
100-119	270	--	270	1,446	--	--	--	1,446	1,716
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	8,668	--	8,668	36,093	--	12,414	15,051	63,560	72,227

Estimates are subject to sampling error

Totals may be off because of rounding

-- = no data were collected.

TABLE 28--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/			ALL CLASSES
	20-49	50-84	85-119	
INCHES AT BREAST HEIGHT	*THOUSAND CUBIC FEET*			
5.0-6.9	4,309	1,122	--	5,431
7.0-8.9	2,312	96	--	2,408
9.0-10.9	1,794	23	--	1,817
11.0-12.9	1,551	78	--	1,629
13.0-14.9	1,085	--	--	1,085
15.0-16.9	345	13	--	358
17.0-18.9	369	--	--	369
19.0-20.9	2/ -371	--	--	-371
21.0-22.9	-52	--	--	-52
23.0-24.9	439	--	--	439
25.0-26.9	-26	--	--	-26
27.0-28.9	169	--	--	169
29.0-30.9	176	--	--	176
31.0-32.9	96	--	--	96
33.0-34.9	54	--	--	54
35.0-36.9	--	--	--	--
37.0-38.9	18	--	--	18
39.0 AND LARGER	19	--	--	19
ALL CLASSES	12,287	1,332	--	13,619

Estimates are subject to sampling error.

Totals may be off because of rounding.

- = no data were collected.

1/ Potential yield per acre, mean annual increment.

2/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 29--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
INCHES AT BREAST HEIGHT	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*			
9.0-10.9	3,678	--	--	3,678
11.0-12.9	43,779	9,731	--	53,510
13.0-14.9	6,569	--	--	6,569
15.0-16.9	2,467	98	--	2,565
17.0-18.9	2,419	--	--	2,419
19.0-20.9	2/ -2,070	--	--	-2,070
21.0-22.9	-229	--	--	-229
23.0-24.9	2,567	--	--	2,567
25.0-26.9	-30	--	--	-30
27.0-28.9	1,046	--	--	1,046
29.0-30.9	1,007	--	--	1,007
31.0-32.9	617	--	--	617
33.0-34.9	352	--	--	352
35.0-36.9	--	--	--	--
37.0-38.9	101	--	--	101
39.0 AND LARGER	125	--	--	125
ALL CLASSES	62,398	9,829	--	72,227

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

2/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 30--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND CUBIC FEET			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	--	--	--	--
COTTONWOOD	1,531	--	--	1,531
BIRCH	1,174	--	--	1,174
ALL TYPES	2,705	--	--	2,705

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 31--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	--	--	--	--
COTTONWOOD	8,370	--	--	8,370
BIRCH	6,585	--	--	6,585
ALL TYPES	14,955	--	--	14,955

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 32--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	--	--	--	--	--	--
7.0-8.9	--	--	--	--	--	--
9.0-10.9	--	--	--	--	72	72
11.0-12.9	--	--	--	--	--	--
13.0-14.9	--	--	--	--	284	284
15.0-16.9	--	--	360	--	--	360
17.0-18.9	--	--	550	--	--	550
19.0-20.9	--	--	328	--	301	629
21.0-22.9	--	--	293	--	216	509
23.0-24.9	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	302	302
ALL CLASSES	--	--	1,531	--	1,174	2,705

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 33--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*			
9.0-10.9	--	--	--	--	--	--
11.0-12.9	--	--	--	--	--	--
13.0-14.9	--	--	--	--	1,618	1,618
15.0-16.9	--	--	1,798	--	--	1,798
17.0-18.9	--	--	2,943	--	--	2,943
19.0-20.9	--	--	1,888	--	1,836	3,724
21.0-22.9	--	--	1,741	--	1,412	3,153
23.0-24.9	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	1,719	1,719
ALL CLASSES	--	--	8,370	-	6,585	14,955

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 34--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	ALL SPECIES
SQUARE FEET PER ACRE				*THOUSAND CUBIC FEET*					
1-19	--	--	--	--	--	--	--	--	--
20-39	302	--	302	--	--	--	--	--	302
40-59	--	--	--	113	--	--	--	113	113
60-79	284	--	284	475	--	--	328	803	1,087
80-99	--	--	--	--	--	--	1,203	1,203	1,203
100-119	--	--	--	--	--	--	--	--	--
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	586	--	586	588	--	--	1,531	2,120	2,705

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 35--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	ALL SPECIES
SQUARE FEET PER ACRE				THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE					
1-19	--	--	--	--	--	--	--	--	--
20-39	*1,719*	--	*1,719*	--	--	--	--	--	*1,719*
40-59	--	--	--	*700*	--	--	--	*700*	*700*
60-79	*1,618*	--	*1,618*	*2,548*	--	--	*1,888*	*4,436*	*6,054*
80-99	--	--	--	--	--	--	*6,482*	*6,482*	*6,482*
100-119	--	--	--	--	--	--	--	--	--
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	*3,337*	--	*3,337*	*3,248*	--	--	*8,370*	*11,618*	*14,955*

Estimates are subject to sampling error.

Totals may be off because of rounding

-- = no data were collected.

TABLE 36--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/			ALL CLASSES
	20-49	50-84	85-119	
INCHES AT BREAST HEIGHT	*THOUSAND CUBIC FEET*			
5.0-6.9	--	--	--	--
7.0-8.9	--	--	--	--
9.0-10.9	72	--	--	72
11.0-12.9	--	--	--	--
13.0-14.9	284	--	--	284
15.0-16.9	360	--	--	360
17.0-18.9	550	--	--	550
19.0-20.9	629	--	--	629
21.0-22.9	509	--	--	509
23.0-24.9	--	--	--	--
25.0-26.9	302	--	--	302
27.0-28.9	--	--	--	--
29.0-30.9	--	--	--	--
31.0-32.9	--	--	--	--
33.0-34.9	--	--	--	--
35.0-36.9	--	--	--	--
37.0-38.9	--	--	--	--
39.0 AND LARGER	--	--	--	--
ALL CLASSES	2,705	--	--	2,705

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 37--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
INCHES AT BREAST HEIGHT	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*			
1.0-2.9	--	--	--	--
3.0-4.9	--	--	--	--
5.0-6.9	--	--	--	--
7.0-8.9	--	--	--	--
9.0-10.9	--	--	--	--
11.0-12.9	--	--	--	--
13.0-14.9	1,618	--	--	1,618
15.0-16.9	1,798	--	--	1,798
17.0-18.9	2,943	--	--	2,943
19.0-20.9	3,724	--	--	3,724
21.0-22.9	3,153	--	--	3,153
23.0-24.9	--	--	--	--
25.0-26.9	1,719	--	--	1,719
27.0-28.9	--	--	--	--
29.0-30.9	--	--	--	--
31.0-32.9	--	--	--	--
33.0-34.9	--	--	--	--
35.0-36.9	--	--	--	--
37.0-38.9	--	--	--	--
39.0 AND LARGER	--	--	--	--
ALL CLASSES	14,955	--	--	14,955

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 38--NUMBER OF GROWING STOCK TREES, CUBIC-FOOT VOLUME PER ACRE, AND VOLUME PER ACRE IN INTERNATIONAL 1/4-INCH RULE ON TIMBERLAND AND ALL FOREST LAND BY FOREST TYPE, TALKEETNA BLOCK, SUSITNA UNIT, ALASKA, 1979

FOREST TYPE	TREES PER ACRE 1/	VOLUME PER ACRE	VOLUME PER ACRE
	NUMBER	*CUBIC FEET*	*BOARD FEET, INTERNATIONAL 1/4-INCH RULE*
TIMBERLAND:			
BLACK SPRUCE	--	--	--
WHITE SPRUCE	35	740	3,906
COTTONWOOD	45	1,850	9,290
ASPEN	--	--	--
BIRCH	121	855	2,422
ALL TIMBERLAND	99	1,022	3,793
FOREST LAND:			
BLACK SPRUCE	127	488	557
WHITE SPRUCE	74	532	2,149
COTTONWOOD	55	1,611	7,822
ASPEN	--	--	--
BIRCH	114	881	2,681
ALL FOREST LAND	97	835	2,941

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Trees 5.0 inches in d.b.h. and larger.

Metric Equivalents

1 inch = 25.4 millimeters (mm)
1 inch = 0.0254 meter (m)
1 foot = 0.3048 meter (m)
1 mile = 1.609 kilometers (km)
1 acre = 0.4047 hectare (ha)
1 cubic foot = 0.0283 cubic meter (m^3)
1 cubic foot per acre = 0.069 97 cubic meter per hectare (m^3/ha)
20 cubic feet per acre = 1.3994 cubic meters per hectare (m^3/ha)
1 square foot of basal area per acre = 0.2296 square meter per hectare (m^2/ha)

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Setzer, Theodore S.; Carroll, Gary L.; Mead, Bert R. Timber resource statistics for the Talkeetna block, Susitna River basin multiresource inventory unit, Alaska, 1979. Resour. Bull. PNW-115. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1984. 47 p.

A multiresource inventory of the Talkeetna block, Susitna River basin inventory unit, was conducted in 1979. Statistics on forest area, timber volumes, and growth and mortality from this inventory are presented. Timberland area is estimated at 562,105 acres and net growing stock volume, mostly hardwood, at 574.7 million cubic feet. Net annual growth of growing stock is estimated at 13.6 million cubic feet and annual mortality at 2.7 million cubic feet.

Keywords: Forest surveys, timber inventory, multiresource inventory, statistics (forest), resources (forest), Alaska (south-central).

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The Hardwood Resource in Western Oregon

John H. Poppino and Donald R. Gedney

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Abstract

Poppino, John H.; Gedney, Donald R. The hardwood resource in western Oregon. Resour. Bull. PNW-116. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; **1984.** 37 p.

The hardwood resource in western Oregon is described by species and ownership. Changes in the private hardwood resource between 1961-62 and 1973-76 are shown. Statistics of size, volume, and ownership by county are presented for red alder (*Alnus rubra* Bong.) and bigleaf maple (*Acer macrophyllum* Pursh).

Keywords: Hardwoods, timber resources, resources (forest), red alder, *Alnus rubra,* bigleaf maple, *Acer macrophyllum,* western Oregon, Oregon (western).

Research Summary

The area and volume of the hardwood resources on all timberland in western Oregon are described based on a 1973-76 inventory. Change in the hardwood resource on non-Federal timberland is based on remeasurement of plots established in 1961-62. In western Oregon 2.7 million acres, or 20 percent of the total timberland area, is classified as hardwood type. Of the total area in hardwood type 70 percent occurs on private timberland and 30 percent on public timberland. Red alder (*Alnus rubra* Bong.) is the most common hardwood species, but the amount of red alder decreases from north to south in western Oregon. Although hardwoods are 8 percent of the total growing stock volume in western Oregon, they are less than 1 percent of the total timber harvest. The area of hardwood type in private ownership decreased 7 percent during the period between inventories, mainly because of the conversion of timberland to nonforest uses; however, hardwood volume increased. Hardwoods occupy 32 percent of all timberland capable of growing 85 cubic feet or more softwood volume per acre per year. Volume by diameter class and owner class by county are presented for red alder (*Alnus rubra* Bong.) and bigleaf maple (*Acer macrophyllum* Pursh).

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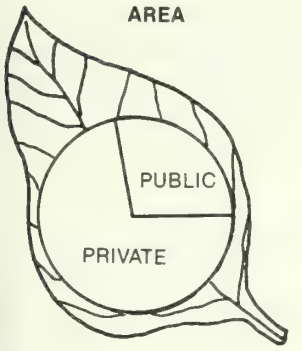
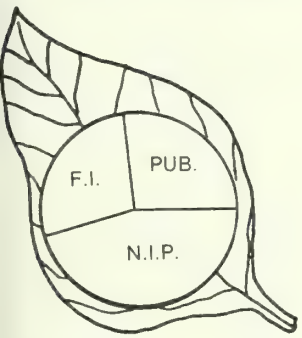
Introduction





Whenever hardwoods are discussed in the Pacific Northwest, three groups of people are interested. A small group, presently converting hardwoods to many different products, wants to know where additional supplies are located. A second group is interested in hardwoods but wants to know more before investing in processing plants. A third group considers hardwoods an obstacle to growing more softwood trees. In the Western United States, most softwood trees are more valuable than hardwoods, and forest management and forest industry in the Northwest are geared to growing softwood trees and producing softwood products.

In this report, we describe the hardwood resource by species and owner; present statistics for each county on size, volume, and ownership of the two principal hardwood species, red alder and bigleaf maple;[1] and examine the potential loss of softwood timber when hardwoods occupy softwood sites. We trace the change in area occupied by hardwoods over time to determine whether the hardwoods are increasing or decreasing.

The hardwood timber type is found on 2.7 million (20 percent) of the 13.7 million acres of timberland in western Oregon (Gedney 1982). Of the hardwood area, 70 percent is on private timberland (fig. 1); 30 percent on public timberland. The volume in hardwood trees totals 8 percent (4.8 billion cubic feet) of the total volume of all trees in western Oregon; 58 percent of the hardwood volume is on private timberland, 42 percent on public timberland.

Figure 1.—A common sight on farms in western Oregon is small woodlots providing both fuel and shelter.

[1]See "Names of Trees" for scientific names.

Methods

The information in this report was obtained by field measurement in 1973-76 of 961 permanent plots on non-Federal timberland in western Oregon. These plots were originally installed and measured in 1961-62. Information on change and timber production on non-Federal timberland came from comparisons of the 1961-62 inventory data with those of the 1973-76 inventory. Plot data were used t develop detailed statistics. Statistics for Federal timberland came from inventories conducted by Federal agencies; plot data were not available for these inventories. Thus, neither the data that come from remeasurement of inventory plots nor the detailed statistics include Federal owners.

Reliability of Data

Sampling errors and their associated confidence intervals (0.68 probability level) can be or have been calculated for all non-Federal area and volume estimates. Sampling errors for National Forest and Bureau of Land Management (BLM), U.S Department of the Interior, lands (Gedney 1982) were not available.

Confidence intervals can be calculated for statistics presented in tables 1-15 as follows:

Timberland area (by type or class):
Confidence interval (M acres) = $3.32(A)^{0.44}$;
where:
M acres is thousand acres, and
A is timberland area in M acres.

Timberland volume:
Confidence interval (M ft^3) = $1.796(V)^{0.616}$;
where:
M ft^3 is thousand cubic feet, and
V is net cubic-foot volume in M ft^3.

Timberland growth:
Confidence interval (M ft^3) = $5.81(V)^{0.669}$;
where:
V is net annual cubic-foot growth in M ft^3.

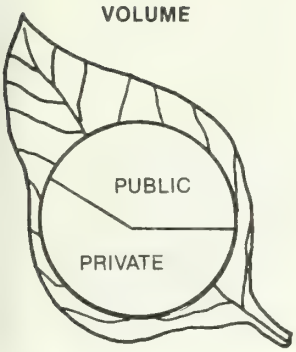
For tables 16-54, sampling errors and their associated confidence intervals have been calculated and are shown in the tables.

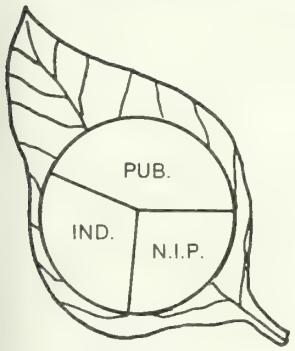
The Hardwood Timber Resource

Distribution

Although half the hardwood area is in southwest Oregon, hardwoods account fo about the same proportion of total forest area in each of the three western Oregon inventory units (fig. 2). In northwest Oregon, 20 percent of the total timberland area is in hardwood type; in west-central Oregon, 16 percent; and in southwest Oregon, 22 percent.

The distribution of volume does not follow the distribution of hardwood area because the higher site lands in northwest Oregon support greater volumes per acre. Northwest Oregon has 34 percent of the hardwood volume; west-central Oregon, 24 percent; and southwest Oregon, 42 percent.





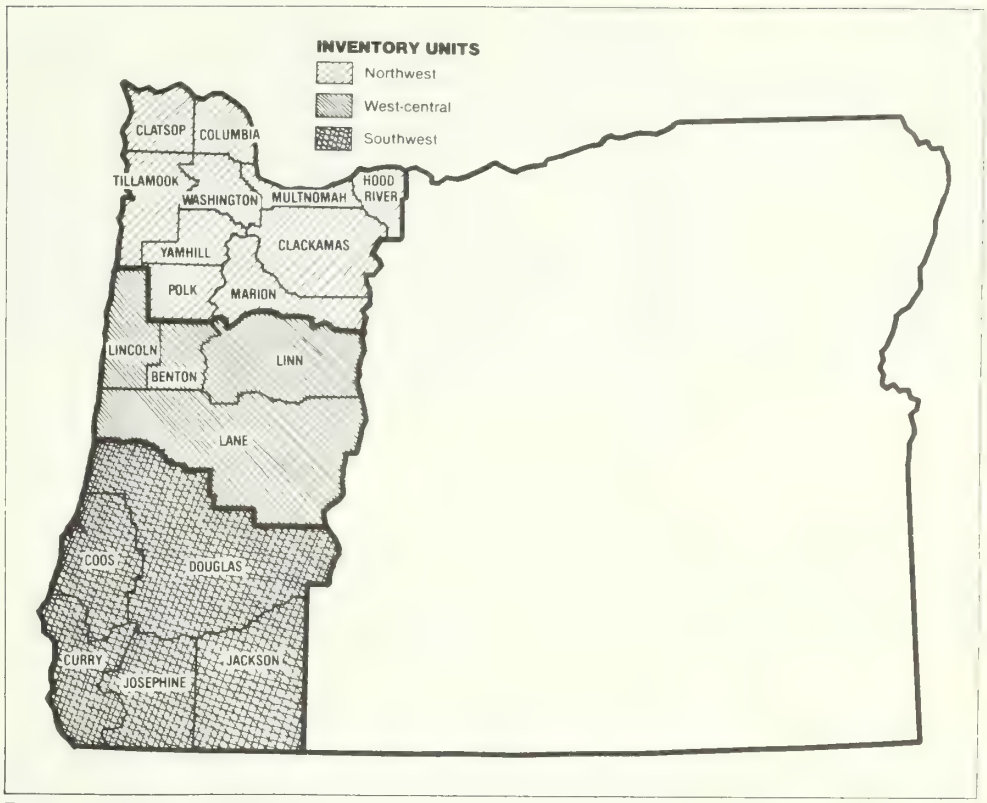
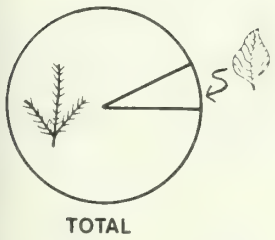


Figure 2.—Western Oregon inventory units and counties.

Ownership



Hardwoods occur most frequently on nonindustrial private timberland. This ownership accounts for 31 percent of the hardwood volume and 42 percent of the hardwood area in western Oregon. Timberland owned by forest industry accounts for 26 percent of the hardwood volume and 28 percent of the hardwood area. Although public timberlands contain smaller areas of hardwoods, volumes per acre are higher. National Forests have 18 percent of hardwood volume but only 15 percent of hardwood types. Similarly, the Bureau of Land Management has 13 percent of the hardwood volume but only 6 percent of the area; other public owners (mainly State of Oregon) have 12 percent of the volume but only 9 percent of the area.

Private ownership of hardwoods decreases from north to south. In northwest Oregon, 70 percent of the hardwood volume is in private ownership; in west-central Oregon, 54 percent; and in southwest Oregon, 49 percent.

Species

Red alder is not only the most valuable hardwood species in western Oregon in terms of its use for many forest products, it is also the most common. Of the total hardwood inventory, 54 percent is red alder. Alder usually grows on moist, deep soils commonly found in northwest and west-central Oregon (fig. 3); of the total hardwood inventory, 69 percent is alder in northwest Oregon and 65 percent in west-central Oregon. Although alder is only 34 percent of the inventory volume in southwest Oregon, it still is a significant component of stand volume.

Figure 3.—Alder usually grows on moist, deep soils in northwest and west-central Oregon.

Figure 4.—Oregon white oak is a common hardwood species in the Willamette Valley.

Red alder tends to be concentrated in the coastal counties. Coos County has 19 percent of the volume of red alder in western Oregon; Lincoln County, 14 percent; Clatsop County, 13 percent; and Tillamook County, 11 percent. Most of the area of these counties is west of the summit of the Coast Ranges. These counties have the highest growth rate of red alder and 57 percent of the total volume in western Oregon. Actual values for alder volume by county are shown in table 16.

Both public and private timberland owners have substantial inventories of red alder. Public owners have 43 percent of the alder inventory; private owners, 57 percent. Within the non-Federal timberland ownership, two-thirds (66 percent) of the forest industry, 43 percent of the nonindustrial private, and 85 percent of the other public hardwood volume is red alder. Hardwood growing stock volume is shown in table 6.

An examination of plot data for non-Federal timberland shows 10 other hardwood species with reportable volumes, ranging from as much as 14 percent of the total hardwood volume to as little as 0.4 percent. Some of the more common species in descending order of volume are bigleaf maple, Oregon white oak (fig. 4), Pacific madrone, and tanoak (table 6).

Alder is found in all the coastal counties, but in southern Oregon it is limited to the coastal strip; evergreen hardwoods increase inland. Franklin and Dyrness (1973, p. 133) describe interior southwest Oregon as having a mixed-evergreen forest zone composed "of evergreen needle-leaved trees (upper strata) and sclerophyllous broad-leaved trees (lower strata)." They identify the forest composition (p. 134) as:

> Without question, the most important tree species in the Mixed-Evergreen Zone are *Pseudotsuga menziesii* and *Lithocarpus densiflorus;* these are judged to be the major climax tree species. A variety of other trees may be present, hardwoods being the more characteristic: *Arbutus menziesii, Castanopsis chrysophylla,* and *Quercus chrysolepis.*

Figure 5.—Hardwoods harvested expressly for fuelwood are not included in annual harvest reports.

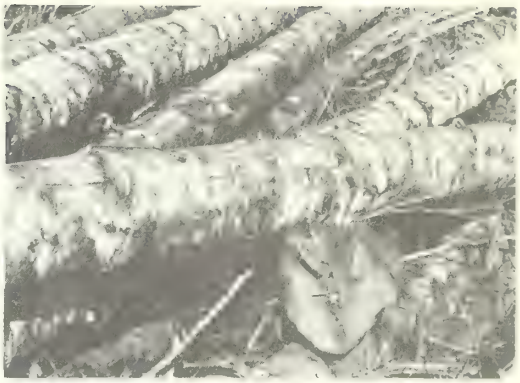
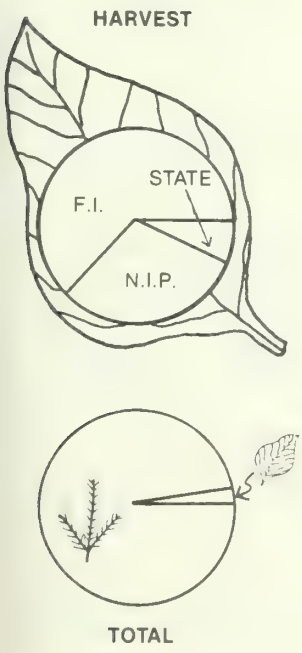


Figure 6.—Red alder is the major hardwood species harvested.

Harvest



Although hardwoods occupy 20 percent of the timber-growing area and are 8 percent of the western Oregon growing stock volume, they account for less than 1 percent (65 million board feet) of the timber harvest for all owners (Howard and Hiserote 1978). This estimate does not include harvest expressly for fuelwood (fig. 5).

When Federal lands, from which few hardwoods are normally harvested, are excluded from these statistics, the proportion of hardwoods harvested increases. From remeasured plot data from inventories made in 1961-62 and 1973-76, the annual hardwood harvest is estimated at 102.93 million board feet (21.4 million cubic feet); forest industry owners harvest 65 percent of the total. The annual hardwood harvest is 3 percent of the total annual timber harvest from non-Federal timberland owners; it includes saw logs, pulp, and fuelwood. Regardless of which harvest figure is used, the contribution of hardwoods to the timber economy of the State is minor.

The largest hardwood harvest is in southwest Oregon. Hardwoods there account for two-thirds of the hardwood timber harvest in western Oregon (tables 10-13).

Red alder is the major hardwood species harvested. It accounts for slightly more than one-half the non-Federal hardwood harvest in western Oregon and ranges from a low of 46 percent of the total hardwood harvest in southwest Oregon to 77 percent in northwest Oregon (fig. 6).

Change in the Private Hardwood Resource

The area of privately owned timberland in hardwood types decreased 7 percent between the 1961-62 and 1973-76 inventories of western Oregon. Most of the decrease in hardwood types resulted from the conversion of timberland to nonforest uses (Gedney 1981). There was a 15-percent loss of area in hardwood type on nonindustrial private timberland, mainly because timberland was converted to other land uses. A smaller loss of nonindustrial private hardwood type was through land acquisition by forest industry which increased its area of hardwood forest land by 13 percent.

Owner	1961-62	1973-76
	(Thousand acres)	
Forest industry	829	940
Nonindustrial	1,462	1,243
Total	2,291	2,183

Despite the net decrease in hardwood area on private timberland between 1961-62 and 1973-76 the volume of hardwoods increased 6 percent. The volume of hardwoods on nonindustrial private timberland decreased 4 percent but increased 20 percent on forest industry timberland.

Of the principal hardwood species only red alder substantially increased in volume; bigleaf maple, Pacific madrone, and tanoak all showed a smaller volume in 1973-76 than in 1961-62.

The average size of hardwood trees on both nonindustrial private and forest industry timberland decreased between inventories. The volume in trees 21.0 inches and larger in diameter decreased from 21 percent of the total hardwood volume in 1961-62 to 15 percent in 1973-76. The proportion of trees 9.0 to 20.9 inches in diameter increased from 56 to 62 percent, whereas the proportion of trees 5.0 to 9.9 inches in diameter stayed constant at 23 percent.

Hardwood Types On Softwood Sites

Red alder is usually found on the better softwood-growing sites; 97 percent is found on sites capable of growing 85 cubic feet or more of softwood volume per acre per year (prime forest land sites) (fig. 7).

When the total forest-land resource is examined, the impact of hardwoods on the potential for growing softwood becomes apparent. Red alder occupies 14 percent of all western Oregon timberland and 15 percent of the prime forest land. The area lost to softwood production because of hardwood occupancy is doubled when all hardwood types are considered. Hardwoods occupy 32 percent of the timberland capable of growing at least 85 cubic feet per acre per year.

Figure 7.—Red alder is usually found on the better softwood growing sites.

Studies are in progress to evaluate the contribution of red alder to the productivity and general health of the forest. Maintaining red alder in Douglas-fir stands can increase merchantable yields in nitrogen-deficient sites (Miller and Murray 1978). Twenty to forty red alder uniformly distributed per acre will provide adequate nitrogen but will not seriously reduce Douglas-fir growing stock. Nelson and others reported in 1978 that:

> Red alder, in mixture with conifer or preceding stands of conifers, may be useful in reducing damage from laminated root rot (*Phellinus weirii*) on infested sites. This benefit could result from changes in soil nitrate, pH, fatty acids, phenolic compounds, and microbial populations brought about by alder, as well as physical separation of susceptible root systems in mixed stands. Survey data tend to support this hypothesis. Disease incidence may be limited by reducing saprophytic survival of the pathogen or inhibiting its spread along conifer roots. Evidence for the former is greater than for the latter. Long-term experimental plots have been established to provide more definitive answers.

For red alder to become economically competitive with Douglas-fir and western hemlock, the stumpage price would have to increase 250 percent for naturally seeded stands and 400 percent for stands requiring site preparation and planting. This is not likely with existing markets. "Increased market competition for alder and improved utilization of smaller low quality trees would be necessary before alder could compare favorably with conifer realization" (McGillivary 1981).

In the summary of his economic analysis of alder, McGillivary (1981) acknowledges that management of alder as a commercial crop is currently profitable, but alder is worth considerably less than Douglas-fir and western hemlock. He ends with an optimistic note:

> As future demands place stronger emphasis on fast growing timber crops, the profitability of alder will increase. At that time the management of alder as a fertilizing agent and principal crop will become more attractive.

Summary

Hardwoods occupy 32 percent of the prime softwood timberland growing sites in western Oregon. Of the hardwood timber type 70 percent is on private timberland, 30 percent on public timberland. Eight percent of the total timber growing-stock volume is hardwood, but hardwoods account for less than 1 percent of the annual harvest. There has been a slight decrease in total hardwood area but a modest increase in volume since 1962. Red alder, which accounts for 54 percent of the hardwood inventory, is usually found on the better sites. It may contribute to the productivity and health of the forest, but it is not economically competitive with softwoods.

Terminology

Forest industry lands—Lands owned by companies or individuals operating wood-using plants.

Forest land—Land at least 10 percent stocked by live trees or land formerly having such tree cover and not currently developed for nonforest use.

Forest types—Stands with 50 percent or more stocking in live conifer trees are classed as softwood types. Stands with a majority of stocking in live hardwood trees are classed as hardwood types. Within these two groups, the individual forest type is determined by plurality of stocking by species of live softwood or hardwood trees.

Growing stock volume—Net volume in cubic feet of live sawtimber and poletimber growing stock trees from stump to a minimum 4-inch (10-cm) top (of central stem) outside bark. Net volume equals gross volume less deduction for rot and missing bole sections.

Hardwoods—Trees that are angiosperms, usually broad leaved and deciduous.

Mean annual increment—A measure of the productivity of forest land in terms of the average increase in cubic-foot volume per acre per year. For a given species and site index, the average is based on the number of years needed for the mean annual increment to culminate in fully stocked stands.

Noncommercial species—A tree species not suitable for industrial wood products.

Nonindustrial private lands—All privately owned lands except those classed as forest industry lands.

Nonindustrial private lands, farmer—Lands owned by operators of farms.

Nonindustrial private lands, miscellaneous—Privately owned lands other than those owned by the forest industry or farmers.

Other public lands—Lands administered by public agencies other than the Forest Service and the Bureau of Land Management.

Prime timberland—Timberland capable of growing at least 85 cubic feet per acre per year.

Site class—A classification of the potential productivity of forest land in terms of mean annual increment.

Softwoods—Coniferous trees, usually evergreen.

Timber harvest—Volume of roundwood removed from forest land for products.

Timber volume—Includes the net volume in cubic feet of poletimber and sawtimber trees and salvable dead sawtimber trees of all species, the net volume in cubic feet of cull trees of commercial species, and gross volume of noncommercial species. Volume is measured from stump to a minimum 4-inch (10-cm) top outside the bark.

Timberland—Forest land capable of producing 20 cubic feet or more per acre per year of industrial wood.

Names of Trees

This list includes tree species mentioned in this report. The source for scientific names is Little (1979).

Common name	Scientific name
Softwood trees:	
Douglas-fir	*Pseudotsuga menziesii* (Mirb.) Franco
Hemlock, western	*Tsuga heterophylla* (Raf.) Sarg.
Hardwood trees:	
Alder, red	*Alnus rubra* Bong.
Alder, white	*Alnus rhombifolia* Nutt.
Ash, Oregon	*Fraxinus latifolia* Benth.
California-laurel (Oregon myrtle)	*Umbellularia californica* (Hook. & Arn.) Nutt.
Chinkapin, golden	*Castanopsis chrysophylla* (Dougl.) A. DC.
Cottonwood, black	*Populus trichocarpa* Torr. & Gray
Madrone, Pacific	*Arbutus menziesii* Pursh
Maple, bigleaf	*Acer macrophyllum* Pursh
Oak, California black	*Quercus kelloggii* Newb.
Oak, Oregon white	*Quercus garryana* Dougl. ex Hook.
Tanoak	*Lithocarpus densiflorus* (Hook. & Arn.) Rehd.

Tables

Table 1—Area of timberland by cubic-foot site class in western Oregon

Tables 2 to 5—Area of hardwood types on non-Federal timberland on softwood sites in western Oregon, by site class

Tables 6 to 9—Net hardwood growing stock volume on timberland in western Oregon, by species and by ownership class

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Table 14—Hardwood volume in western Oregon in 1961-62 and 1973-76 by owne and inventory unit on plots that stayed in the same ownership

Table 15—Change in hardwood area in western Oregon in 1961-62 and 1973-76 by owner and inventory unit on plots that stayed in the same ownership

Table 16—Cubic volume of red alder and bigleaf maple by county for western Oregon

Tables 17 to 54—Cubic volume of bigleaf maple or red alder by owner, d.b.h. class, and county, western Oregon

Table 1—Area of timberland by cubic-foot site class in western Oregon, January 1, 1977[1/]

AREA	SITE CLASS (CUBIC FEET PER ACRE PER YEAR)						
	225+	165-224	120-164	85-119	50-84	20-49	Total
	THOUSAND ACRES						
AREA OF NON-FEDERAL CONIFER SITE TIMBERLAND	978	3,440	1,370	614	430	70	6,902
AREA OF NON-FEDERAL ALDER TYPE ON CONIFER SITE TIMBERLAND	30	209	628	88	28	0	983
AREA OF NON-FEDERAL OTHER HARDWOOD TYPES ON CONIFER SITE TIMBERLAND	13	73	506	393	145	208	1,338

1/ Capacity for cubic-foot annual growth per acre at culmination of mean annual growth in fully stocked natural stands.

Table 2—Area of hardwood types on non-Federal timberland on softwood sites by site class, western Oregon, January 1, 1977[1]

HARDWOOD TYPES	SITE CLASS[2] OVER 225	165-224	120-164	85-119	50-84	20-49	ALL CLASSES
	THOUSAND ACRES						
RED ALDER	30	209	628	89	28	0	984
CALIFORNIA BLACK OAK	--	--	--	5	6	44	55
BLACK COTTONWOOD	--	--	8	8	--	--	17
MAPLE	6	27	113	26	--	8	180
OREGON WHITE OAK	--	--	30	73	45	15	163
MADRONE	--	6	10	15	73	101	205
OTHER COMMERCIAL HARDWOODS	--	21	114	24	--	15	174
NONCOMMERCIAL HARDWOODS	--	--	10	19	--	15	45
UNCLASSIFIED	6	20	220	223	21	8	497
ALL TYPES	43	282	1,134	482	173	208	2,321

[1]/Totals may be off because of rounding.

[2]/Capacity for cubic-foot annual growth per acre at culmination of mean annual growth in fully stocked natural stands.

Table 3—Area of hardwood types on non-Federal timberland on softwood sites by site class, northwest Oregon, January 1, 1977[1]

HARDWOOD TYPES	SITE CLASS[2] OVER 225	165-224	120-164	85-119	50-84	20-49	ALL CLASSES
	THOUSAND ACRES						
RED ALDER	13	65	314	27	5	--	424
BLACK COTTONWOOD	--	--	8	8	--	--	17
MAPLE	6	12	54	4	--	--	76
OREGON WHITE OAK	--	--	30	35	--	--	65
OTHER COMMERCIAL HARDWOODS	--	--	8	--	--	--	8
NONCOMMERCIAL HARDWOODS	--	--	--	12	--	--	12
UNCLASSIFIED	6	3	99	67	--	--	175
ALL TYPES	26	79	514	154	5	--	778

[1]/Totals may be off because of rounding.

[2]/Capacity for cubic-foot annual growth per acre at culmination of mean annual growth in fully stocked natural stands.

Table 4—Area of hardwood types on non-Federal timberland on softwood sites by site class, west-central Oregon, January 1, 1977[1]

HARDWOOD TYPES	SITE CLASS[2] OVER 225	165-224	120-164	85-119	50-84	20-49	ALL CLASSES
	THOUSAND ACRES						
RED ALDER	8	36	186	16	--	--	247
CALIFORNIA BLACK OAK	--	--	--	5	--	--	5
MAPLE	--	10	47	12	--	--	69
OREGON WHITE OAK	--	--	--	21	15	9	46
OTHER COMMERCIAL HARDWOODS	--	--	19	--	--	--	19
NONCOMMERCIAL HARDWOODS	--	--	10	--	--	--	10
UNCLASSIFIED	--	9	30	62	5	--	106
ALL TYPES	8	56	292	115	21	9	501

[1]/Totals may be off because of rounding.

[2]/Capacity for cubic-foot annual growth per acre at culmination of mean annual growth in fully stocked natural stands.

Table 5—Area of hardwood types on non-Federal timberland on softwood sites by site class, southwest Oregon, January 1, 1977[1]

HARDWOOD TYPES	SITE CLASS OVER 225	165-224	120-164	85-119	50-84	20-49	ALL CLASSES
	THOUSAND ACRES						
RED ALDER	9	109	128	45	23	--	314
CALIFORNIA BLACK OAK	--	--	--	--	6	44	50
MAPLE	--	5	12	10	--	8	35
OREGON WHITE OAK	--	--	--	17	30	5	52
MADRONE	--	6	10	15	73	101	205
OTHER COMMERCIAL HARDWOODS	--	21	87	24	--	15	147
NONCOMMERCIAL HARDWOODS	--	--	--	7	--	15	22
UNCLASSIFIED	--	8	90	94	15	8	216
ALL TYPES	9	148	327	213	148	197	1,042

[1]/Totals may be off because of rounding.

[2]/Capacity for cubic-foot annual growth per acre at culmination of mean annual growth in fully stocked natural stands.

Table 6—Net hardwood growing stock volume on timberland by species and ownership class, western Oregon, January 1, 1977[1]

SPECIES	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERS
			MILLION CUBIC FEET		
BIGLEAF MAPLE	54	165	101	162	482
RED ALDER	475	815	218	415	1,923
WHITE ALDER	--	10	--	3	13
PACIFIC MADRONE	10	87	18	65	180
GOLDEN CHINKAPIN	3	34	--	31	68
OREGON ASH	--	--	39	12	51
TANOAK	--	43	12	34	88
BLACK COTTONWOOD	--	3	7	44	54
OREGON WHITE OAK	6	18	182	59	266
CALIFORNIA BLACK OAK	8	32	30	21	90
CALIFORNIA LAUREL	2	23	22	9	55
ALL SPECIES	559	1,228	629	854	3,270

1/Totals may be off because of rounding.

Table 7—Net hardwood growing stock volume on timberland by species and ownership class, northwest Oregon, January 1, 1977[1]

SPECIES	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERS
			MILLION CUBIC FEET		
BIGLEAF MAPLE	37	65	66	116	284
RED ALDER	234	388	102	192	916
OREGON ASH	--	--	16	5	21
BLACK COTTONWOOD	--	--	2	44	46
OREGON WHITE OAK	--	2	95	27	124
ALL SPECIES	271	455	282	384	1,391

1/Totals may be off because of rounding.

Table 8—Net hardwood growing stock volume on timberland by species and ownership class, west-central Oregon, January 1, 1976[1]

SPECIES	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERS
			MILLION CUBIC FEET		
BIGLEAF MAPLE	15	40	24	35	115
RED ALDER	82	180	39	143	443
PACIFIC MADRONE	--	10	3	1	14
GOLDEN CHINKAPIN	2	6	--	18	26
OREGON ASH	--	--	13	6	18
BLACK COTTONWOOD	--	3	5	--	8
OREGON WHITE OAK	1	2	58	25	86
CALIFORNIA BLACK OAK	3	1	7	2	14
ALL SPECIES	105	242	149	229	724

1/Totals may be off because of rounding.

Table 9—Net hardwood growing stock volume on timberland by species and ownership class, southwest Oregon, January 1, 1975[1]

SPECIES	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERS
			MILLION CUBIC FEET		
BIGLEAF MAPLE	1	60	11	11	83
RED ALDER	160	247	77	80	564
WHITE ALDER	--	10	--	3	13
PACIFIC MADRONE	10	77	15	65	166
GOLDEN CHINKAPIN	1	28	--	13	41
OREGON ASH	--	--	10	1	11
TANOAK	--	43	12	34	88
OREGON WHITE OAK	5	13	29	7	55
CALIFORNIA BLACK OAK	6	30	23	19	77
CALIFORNIA LAUREL	2	223	22	9	55
ALL SPECIES	185	531	194	240	1,154

1/Totals may be off because of rounding.

Table 10—Annual volume of hardwood harvested from timberland by species and by owner, western Oregon, 1961-62 to 1973-76[1]

SPECIES	STATE	FOREST INDUSTRY	NONINDUSTRIAL PRIVATE	ALL OWNERSHIPS
		THOUSAND CUBIC FEET		
BIGLEAF MAPLE	--	2,965	349	3,314
RED ALDER	776	5,908	4,438	11,122
PACIFIC MADRONE	--	512	58	571
GOLDEN CHINKAPIN	--	169	281	450
OREGON ASH	--	--	91	91
TANOAK	--	4,480	--	4,480
OREGON WHITE OAK	277	--	1,102	1,379
CALIFORNIA BLACK OAK	--	--	48	48
ALL SPECIES	1,053	14,043	6,369	21,455

1/Totals may be off because of rounding.

Table 11—Annual volume of hardwood harvested from timberland by species and by owner, northwest Oregon, January 1, 1962, to January 1, 1977[1]

SPECIES	STATE	FOREST INDUSTRY	NONINDUSTRIAL PRIVATE	ALL OWNERSHIPS
		THOUSAND CUBIC FEET		
BIGLEAF MAPLE	--	--	349	349
RED ALDER	--	2,743	1,201	3,944
OREGON WHITE OAK	--	--	800	800
ALL SPECIES	--	2,743	2,350	5,093

1/Totals may be off because of rounding.

Table 12—Annual volume of hardwood harvested from timberland by species and by owner, west-central Oregon, January 1, 1963, to January 1, 1976[1/]

SPECIES	STATE	FOREST INDUSTRY	NONINDUSTRIAL PRIVATE	ALL OWNERSHIPS
		THOUSAND CUBIC FEET		
BIGLEAF MAPLE	--	978	--	978
RED ALDER	--	--	1,057	1,057
GOLDEN CHINKAPIN	--	--	281	281
OREGON ASH	--	--	91	91
OREGON WHITE OAK	277	--	302	579
CALIFORNIA BLACK OAK	--	--	48	48
ALL SPECIES	277	978	1,779	3,034

[1/]Totals may be off because of rounding.

Table 13—Annual volume of hardwood harvested from timberland by species and by owner, southwest Oregon, January 1, 1963, to January 1, 1975[1/]

SPECIES	STATE	FOREST INDUSTRY	NONINDUSTRIAL PRIVATE	ALL OWNERSHIPS
		THOUSAND CUBIC FEET		
BIGLEAF MAPLE	--	1,986	--	1,986
RED ALDER	776	3,165	2,180	6,121
PACIFIC MADRONE	--	512	58	570
GOLDEN CHINKAPIN	--	169	--	169
TANOAK	--	4,480	--	4,480
ALL SPECIES	776	10,313	2,239	13,327

[1/]Totals may be off because of rounding.

Table 14—Hardwood volume in western Oregon in 1961-62 and 1973-76 by owner and inventory unit on plots that stayed in the same ownership between inventories[1/]

OWNER AND INVENTORY	NORTHWEST OREGON	WEST-CENTRAL OREGON	SOUTHWEST OREGON	TOTAL
		MILLION CUBIC FEET		
OTHER PUBLIC:				
1961-62	67	46	172	285
1973-76	227	104	184	515
FOREST INDUSTRY:				
1961-62	188	120	411	719
1973-76	423	217	455	1,095
NONINDUSTRIAL PRIVATE:				
1961-62	319	274	284	877
1973-76	660	377	423	1,460

[1/]Totals may be off because of rounding.

Table 15—Change in hardwood area in western Oregon in 1961-62 and 1973-76 by owner and inventory unit on plots that stayed in the same ownership between inventories[1/]

OWNER AND INVENTORY	NORTHWEST OREGON	WEST-CENTRAL OREGON	SOUTHWEST OREGON	TOTAL
		MILLION CUBIC FEET		
OTHER PUBLIC:				
1961-62	235	54	102	391
1973-76	115	43	83	242
FOREST INDUSTRY:				
1961-62	185	229	331	746
1973-76	154	193	441	788
NONINDUSTRAIL PRIVATE:				
1961-62	403	235	570	1,209
1973-76	399	294	539	1,232

[1/]Totals may be off because of rounding.

Table 16—Cubic volume of red alder and bigleaf maple by county for western Oregon, January 1, 1977[1/]

COUNTY	RED ALDER			BIGLEAF MAPLE		
	THOUSAND CUBIC FEET					
BENTON	41,128	±	23,947	26,336	±	8,480
CLACKAMAS	69,508	±	13,925	69,566	±	16,642
CLATSOP	258,704	±	43,727	22,547	±	7,292
COLUMBIA	172,506	±	23,076	38,287	±	13,210
COOS	374,555	±	91,302	20,691	±	7,197
CURRY	98,461	±	30,313	10,773	±	7,263
DOUGLAS	79,986	±	43,995	41,628	±	13,741
HOOD RIVER	14,759	±	3,468	12,457	±	3,563
JACKSON	2,398	±	2/2,398	8,404	±	4,311
JOSEPHINE	6,476	±	4,604	684	±	2/684
LANE	75,050	±	19,479	40,107	±	11,339
LINCOLN	274,691	±	57,852	4,679	±	2,099
LINN	49,577	±	23,119	43,813	±	13,762
MARION	25,851	±	5,859	31,176	±	8,073
MULTNOMAH	14,920	±	3,582	17,146	±	4,498
POLK	56,340	±	16,395	20,776	±	6,728
TILLAMOOK	214,856	±	28,194	24,029	±	7,328
WASHINGTON	50,580	±	14,941	32,049	±	8,824
YAMHILL	37,882	±	10,992	15,571	±	4,049

1/Confidence intervals are at the 0.68-probability level.

2/Sampling error may be higher.

Table 17—Cubic volume of bigleaf maple by owner and d.b.h. class, Benton County, Oregon, January 1, 1976[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	1,340 ± 3/1,340	299 ± 3/299	498 ± 362	676 ± 478	2,813 ± 1,493
7.0-8.9	940 ± 3/940	-- --	-- --	1,082 ± 630	2,022 ± 1,131
9.0-10.9	-- --	428 ± 3/428	765 ± 3/765	900 ± 624	2,093 ± 1,076
11.0-12.9	1,013 ± 3/1,013	432 ± 3/432	883 ± 621	-- --	2,328 ± 1,264
13.0-14.9	908 ± 3/908	-- --	1,461 ± 899	751 ± 528	3,120 ± 1,367
15.0-16.9	2,103 ± 3/2,103	987 ± 3/987	858 ± 673	-- --	3,947 ± 2,418
17.0-18.9	-- --	560 ± 3/560	387 ± 3/387	1,374 ± 1,025	2,321 ± 1,219
19.0-20.9	-- --	94 ± 3/94	510 ± 3/510	719 ± 3/719	1,323 ± 887
21.0-28.9	-- --	315 ± 3/315	1,004 ± 715	2,867 ± 1,934	4,185 ± 2,076
29.0-38.9	-- --	503 ± 3/503	1,680 ± 1,042	-- --	2,183 ± 1,157
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	6,304 ± 3/6,304	3,618 ± 1,910	8,047 ± 3,964	8,368 ± 3,799	26,336 ± 8,480

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 18—Cubic volume of red alder by owner and d.b.h. class, Benton County, Oregon, January 1, 1976[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	1,604 ± 3/1,604	555 ± 505	2,747 ± 3/2,747	-- --	4,905 ± 3,220
7.0-8.9	-- --	1,154 ± 3/1,154	2,904 ± 2,535	-- --	4,058 ± 2,786
9.0-10.9	9,333 ± 3/9,333	1,708 ± 3/1,708	2,273 ± 1,619	-- --	13,314 ± 9,624
11.0-12.9	-- --	565 ± 565	2,462 ± 1,761	-- --	3,027 ± 1,850
13.0-14.9	2,517 ± 3/2,517	619 ± 3/619	518 ± 3/518	-- --	3,654 ± 2,643
15.0-16.9	6,714 ± 5,836	-- --	-- --	456 ± 3/456	7,170 ± 5,854
17.0-18.9	-- --	519 ± 3/519	725 ± 3/725	495 ± 3/495	1,739 ± 1,020
19.0-20.9	2,960 ± 3/2,960	-- --	-- --	-- --	2,960 ± 2,960
21.0-28.9	-- --	1,301 ± 3/1,301	-- --	-- --	1,301 ± 3/1,301
29.0-38.9	-- --	-- --	-- --	-- --	-- --
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	23,128 ± 22,192	6,421 ± 6,368	11,628 ± 6,365	951 ± 673	42,128 ± 23,947

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 19—Cubic volume of bigleaf maple by owner and d.b.h. class, Clackamas County, Oregon, January 1, 1977 [1/] [2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	-- --	1,008 ± 742	5,036 ± 4,003	6,043 ± 4,071
7.0-8.9	1,349 ± 986	-- --	1,706 ± 1,002	7,733 ± 3,507	10,787 ± 3,763
9.0-10.9	871 ± 760	-- --	2,458 ± 3/2,458	5,239 ± 2,798	8,568 ± 3,801
11.0-12.9	1,493 ± 1,051	-- --	8,120 ± 5,978	6,894 ± 3,191	16,506 ± 6,856
13.0-14.9	362 ± 274	986 ± 3/986	3,558 ± 2,502	5,737 ± 3,359	10,643 ± 4,283
15.0-16.9	516 ± 338	-- --	824 ± 3/824	448 ± 3/448	1,788 ± 997
17.0-18.9	495 ± 352	753 ± 3/753	2,976 ± 2,127	1,010 ± 3/1,010	5,233 ± 2,496
19.0-20.9	-- ± --	-- --	1,892 ± 1,306	1,705 ± 958	3,598 ± 1,620
21.0-28.9	578 ± 388	1,023 ± 3/1,023	1,060 ± 3/1,060	1,632 ± 1,062	4,292 ± 1,832
29.0-38.9	563 ± 3/563	-- --	900 ± 3/900	-- --	1,463 ± 1,062
39.0 OR MORE	-- --	646 ± 3/646	-- --	-- --	646 ± 3/646
ALL CLASSES	6,226 ± 2,766	3,408 ± 2,760	24,501 ± 10,554	35,432 ± 12,411	69,566 ± 16,642

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 20—Cubic volume of red alder by owner and d.b.h. class, Clackamas County, Oregon, January 1, 1977[1/] [2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	135 ± 3/135	3,180 ± 2,132	612 ± 3/612	3,406 ± 1,953	7,332 ± 2,934
7.0-8.9	1,197 ± 717	3,235 ± 1,935	5,363 ± 2,675	4,361 ± 2,512	14,156 ± 4,077
9.0-10.9	-- --	1,577 ± 1,172	4,949 ± 3,009	7,342 ± 2,821	13,867 ± 4,214
11.0-12.9	723 ± 481	1,632 ± 1,155	2,580 ± 1,468	4,023 ± 1,614	8,958 ± 2,514
13.0-14.9	375 ± 3/375	2,378 ± 1,766	1,727 ± 3/1,727	4,329 ± 1,753	8,810 ± 2,967
15.0-16.9	-- --	-- --	4,932 ± 3,988	4,021 ± 1,845	8,953 ± 4,254
17.0-18.9	417 ± 3/417	742 ± 3/742	2,168 ± 3/2,168	1,329 ± 940	4,657 ± 2,463
19.0-20.9	-- --	-- --	425 ± 3/425	1,398 ± 991	1,823 ± 1,054
21.0-28.9	-- --	-- --	-- --	952 ± 3/952	952 ± 3/952
29.0-38.9	-- --	-- --	-- --	-- --	-- --
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	2,847 ± 1,290	12,744 ± 5,633	22,756 ± 10,641	31,162 ± 8,690	69,508 ± 13,925

./Totals may be off because of rounding.

!/Confidence intervals are at the 0.68-probability level.

:/Sampling error may be higher.

Table 21—Cubic volume of bigleaf maple by owner and d.b.h. class, Clatsop County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	1,144 ± 800	-- --	1,333 ± 890	2,477 ± 1,197
7.0-8.9	-- --	2,055 ± 3/2,055	-- --	1,221 ± 966	3,276 ± 2,271
9.0-10.9	-- --	1,496 ± 736	-- --	-- --	1,496 ± 736
11.0-12.9	205 ± 3/205	392 ± 3/392	-- --	1,694 ± 1,157	2,291 ± 1,239
13.0-14.9	-- --	704 ± 3/704	223 ± 3/223	153 ± 3/153	1,080 ± 751
15.0-16.9	281 ± 3/281	994 ± 3/994	186 ± 3/186	100 ± 3/100	1,561 ± 1,055
17.0-18.9	256 ± 3/256	264 ± 3/264	649 ± 3/649	-- --	1,169 ± 746
19.0-20.9	-- --	-- --	504 ± 3/504	529 ± 3/529	1,033 ± 671
21.0-28.9	-- --	-- --	975 ± 836	2,611 ± 1,936	3,585 ± 2,000
29.0-38.9	-- --	-- --	1,551 ± 1,337	2,688 ± 1,760	4,239 ± 2,202
39.0 OR MORE	-- --	-- --	-- --	339 ± 3/339	339 ± 3/339
ALL CLASSES	742 ± 742	7,049 ± 3,580	4,088 ± 2,698	10,669 ± 5,942	22,547 ± 7,292

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 22—Cubic volume of red alder by owner and d.b.h. class, Clatsop County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	13,267 ± 8,387	8,613 ± 3,135	322 ± 3/322	4,675 ± 2,127	26,877 ± 9,174
7.0-8.9	13,888 ± 7,378	11,003 ± 2,991	914 ± 538	10,681 ± 5,284	36,486 ± 9,511
9.0-10.9	31,103 ± 14,957	23,323 ± 8,156	87 ± 3/87	5,589 ± 2,142	60,101 ± 17,168
11.0-12.9	12,940 ± 5,203	19,542 ± 4,506	1,247 ± 846	5,335 ± 2,863	39,064 ± 7,426
13.0-14.9	14,910 ± 7,303	16,745 ± 4,043	1,355 ± 866	508 ± 390	33,518 ± 8,394
15.0-16.9	4,001 ± 2,399	10,091 ± 3,231	1,612 ± 940	1,233 ± 872	16,936 ± 4,199
17.0-18.9	7,868 ± 4,570	8,562 ± 3,079	1,595 ± 1,456	948 ± 616	18,973 ± 5,705
19.0-20.9	2,491 ± 2,084	4,030 ± 2,194	639 ± 3/639	383 ± 3/383	7,543 ± 3,115
21.0-28.9	4,612 ± 2,743	5,924 ± 3,037	2,595 ± 2,297	3,235 ± 1,711	16,366 ± 4,868
29.0-38.9	1,654 ± 3/1,654	655 ± 3/655	-- --	531 ± 3/531	2,840 ± 1,857
39.0 OR MORE	-- --	-- --	-- --	-- --	
ALL CLASSES	106,735 ± 36,718	108,488 ± 20,626	10,365 ± 6,731	33,116 ± 11,570	258,704 ± 43,727

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

ıble 23—Cubic volume of bigleaf maple by owner and d.b.h. class, Columbia County, Oregon, ınuary 1, 1977[1/] [2/]

B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
CHES	THOUSAND CUBIC FEET				
0-6.9	-- --	2,252 ± 1,571	-- --	2,256 ± 1,432	4,508 ± 2,126
0-8.9	-- --	4,047 ± 3/4,047	-- --	3,778 ± 2,672	7,825 ± 4,849
0-10.9	-- --	2,566 ± 1,341	-- --	-- --	2,566 ± 1,341
0-12.9	12 ± 3/12	772 ± 3/772	-- --	2,809 ± 1,901	3,594 ± 2,051
0-14.9	-- --	1,386 ± 3/1,386	1,635 ± 3/1,635	1,121 ± 3/1,121	4,142 ± 2,301
0-16.9	17 ± 3/17	1,958 ± 3/1,958	147 ± 3/147	734 ± 3/734	2,856 ± 2,096
0-18.9	16 ± 3/16	519 ± 3/519	571 ± 3/571	-- ± --	1,106 ± 772
0-20.9	-- --	-- --	443 ± 3/443	465 ± 3/465	908 ± 592
0-28.9	-- --	-- --	1,846 ± 1,336	3,367 ± 2,394	5,213 ± 2,680
0-38.9	-- --	-- --	1,243 ± 1,057	4,028 ± 3,306	5,271 ± 3,467
0 OR MORE	-- --	-- --	-- --	298 ± 3/298	298 ± 3/298
ALL CLASSES	45 ± 3/45	13,500 ± 6,976	5,884 ± 3,575	18,858 ± 10,817	38,287 ± 13,210

Totals may be off because of rounding.

Confidence intervals are at the 0.68-probability level.

Sampling error may be higher.

ıble 24—Cubic volume of red alder by owner and d.b.h. class, Columbia County, Oregon, ınuary 1, 1977[1/] [2/]

B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
CHES	THOUSAND CUBIC FEET				
0-6.9	634 ± 425	5,675 ± 1,889	2,360 ± 3/2,360	4,643 ± 1,842	13,312 ± 3,528
0-8.9	660 ± 391	8,629 ± 2,391	4,264 ± 2,745	9,004 ± 3,764	22,556 ± 5,055
0-10.9	1,497 ± 821	16,239 ± 4,762	17 ± 3/17	10,134 ± 4,162	27,888 ± 6,349
0-12.9	633 ± 304	18,404 ± 4,426	3,824 ± 2,328	8,012 ± 3,160	30,873 ± 5,568
0-14.9	708 ± 404	15,942 ± 4,674	3,697 ± 2,103	4,013 ± 1,942	24,360 ± 5,358
0-16.9	196 ± 127	10,782 ± 4,221	4,371 ± 3,489	1,875 ± 1,117	17,224 ± 5,577
0-18.9	397 ± 240	10,078 ± 3,605	2,344 ± 1,664	2,314 ± 1,171	15,133 ± 4,080
0-20.9	122 ± 100	3,205 ± 1,481	562 ± 3/562	1,962 ± 1,424	5,851 ± 2,122
0-28.9	226 ± 145	3,535 ± 1,712	4,292 ± 2,639	6,362 ± 3,068	14,414 ± 4,157
0-38.9	79 ± 3/79	351 ± 3/351	-- ± --	467 ± 3/467	897 ± 589
0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	5,151 ± 2,349	92,840 ± 17,843	25,729 ± 12,485	48,785 ± 12,447	172,506 ± 23,076

otals may be off because of rounding.

onfidence intervals are at the 0.68-probability level.

ampling error may be higher.

Table 25—Cubic volume of bigleaf maple by owner and d.b.h. class, Coos County, Oregon, January 1, 1975[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	-- --	-- --	-- --	-- --
7.0-8.9	-- --	-- --	1,122 ± 3/1,122	-- --	1,122 ± 3/1,122
9.0-10.9	-- --	-- --	-- --	-- --	-- --
11.0-12.9	-- --	392 ± 3/392	1,407 ± 3/1,407	-- --	1,800 ± 1,461
13.0-14.9	-- --	2,557 ± 1,884	-- --	-- --	2,557 ± 1,884
15.0-16.9	-- --	848 ± 3/848	-- --	-- --	848 ± 3/848
17.0-18.9	-- --	2,434 ± 1,766	-- --	-- --	2,434 ± 1,766
19.0-20.9	-- --	-- --	1,636 ± 3/1,636	-- --	1,636 ± 3/1,636
21.0-28.9	-- --	5,600 ± 3,387	1,894 ± 3/1,894	-- --	7,494 ± 3,880
29.0-38.9	-- --	1,320 ± 3/1,320	-- --	-- --	1,320 ± 3/1,320
39.0 OR MORE	-- --	323 ± 3/323	-- --	1,158 ± 3/1,158	1,482 ± 1,203
ALL CLASSES	-- --	13,473 ± 5,435	6,059 ± 4,575	1,158 ± 3/1,158	20,691 ± 7,197

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 26—Cubic volume of red alder by owner and d.b.h. class, Coos County, Oregon, January 1, 1975[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	20,737 ± 6,566	6,708 ± 3,259	6,164 ± 3,666	33,609 ± 7,942
7.0-8.9	2,724 ± 3/2,724	30,664 ± 10,015	3,946 ± 2,971	9,005 ± 4,586	46,339 ± 11,464
9.0-10.9	3,884 ± 3/3,884	36,758 ± 10,953	8,915 ± 4,715	4,043 ± 2,366	53,600 ± 12,645
11.0-12.9	15,548 ± 13,668	22,654 ± 7,398	2,573 ± 2,058	8,715 ± 4,492	49,490 ± 16,167
13.0-14.9	27,063 ± 18,502	21,133 ± 7,639	1,983 ± 3/1,983	1,714 ± 3/1,714	51,894 ± 20,183
15.0-16.9	33,209 ± 23,226	10,362 ± 3,976	2,578 ± 1,824	6,585 ± 4,250	52,735 ± 23,974
17.0-18.9	21,519 ± 17,098	11,049 ± 4,039	-- --	1,612 ± 3/1,612	34,180 ± 17,640
19.0-20.9	8,746 ± 4,924	4,553 ± 3/4,553	-- --	3,394 ± 2,423	16,693 ± 7,129
21.0-28.9	2,465 ± 3/2,465	29,416 ± 17,225	2,274 ± 3/2,274	1,315 ± 3/1,315	35,469 ± 17,596
29.0-38.9	-- --	547 ± 3/547	-- --	-- --	547 ± 3/547
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	115,159 ± 82,379	187,873 ± 34,817	28,978 ± 13,763	42,545 ± 17,783	374,555 ± 91,302

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 27—Cubic volume of bigleaf maple by owner and d.b.h. class, Curry County, Oregon, January 1, 1975[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	-- --	-- --	-- --	-- --
7.0-8.9	674 ± 3/674	-- --	-- --	-- --	674 ± 3/674
9.0-10.9	97 ± 3/97	-- --	-- --	-- --	97 ± 3/97
11.0-12.9	-- --	-- --	-- --	-- --	-- --
13.0-14.9	-- --	1,798 ± 3/1,798	-- --	-- --	1,798 ± 3/1,798
15.0-16.9	342 ± 3/342	2,467 ± 1,824	-- --	-- --	2,808 ± 1,856
17.0-18.9	-- --	-- --	-- --	-- --	-- --
19.0-20.9	-- --	4,200 ± 3,656	-- --	-- --	4,200 ± 3,656
21.0-28.9	331 ± 3/331	-- --	-- --	-- --	331 ± 3/331
29.0-38.9	-- --	864 ± 715	-- --	-- --	864 ± 715
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	1,444 ± 3/1,444	9,329 ± 7,118	-- --	-- --	10,773 ± 7,263

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 28—Cubic volume of red alder by owner and d.b.h. class, Curry County, Oregon, January 1, 1975[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	6,545 ± 3,138	13,392 ± 5,390	719 ± 3/719	20,655 ± 6,276
7.0-8.9	-- --	763 ± 613	13,900 ± 9,067	949 ± 3/949	15,612 ± 9,137
9.0-10.9	-- --	3,602 ± 2,639	5,164 ± 3,953	-- --	8,766 ± 4,752
11.0-12.9	-- --	2,765 ± 1,825	2,806 ± 1,921	4,209 ± 3,423	9,779 ± 4,327
13.0-14.9	-- --	6,469 ± 4,191	1,541 ± 3/1,541	6,223 ± 4,408	14,232 ± 6,273
15.0-16.9	-- --	5,170 ± 4,002	-- --	5,068 ± 3/5,068	10,238 ± 6,457
17.0-18.9	-- --	1,347 ± 3/1,347	-- --	4,926 ± 3,843	6,272 ± 4,072
19.0-20.9	-- --	2,359 ± 3/2,359	1,589 ± 3/1,589	5,296 ± 4,168	9,244 ± 5,045
21.0-28.9	-- --	-- --	-- --	2,658 ± 1,917	2,658 ± 1,917
29.0-38.9	-- --	-- --	-- --	1,004 ± 3/1,004	1,004 ± 3/1,004
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	-- --	29,019 ± 13,178	38,391 ± 19,620	31,051 ± 19,001	98,461 ± 30,313

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 29--Cubic volume of bigleaf maple by owner and d.b.h. class, Douglas County, Oregon, January 1, 1974[1/] [2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	447 ± 3/447	1,019 ± 729	-- --	1,466 ± 855
7.0-8.9	-- --	4,228 ± 3,191	-- --	-- --	4,228 ± 3,191
9.0-10.9	-- --	4,661 ± 2,807	1,516 ± 1,075	2,825 ± 3/2,825	9,003 ± 4,083
11.0-12.9	-- --	7,450 ± 3,654	1,252 ± 3/1,252	-- --	8,702 ± 3,862
13.0-14.9	-- --	4,695 ± 2,568	1,032 ± 3/1,032	1,751 ± 3/1,751	7,478 ± 3,275
15.0-16.9	-- --	1,256 ± 3/1,256	-- --	1,292 ± 3/1,292	2,549 ± 1,802
17.0-18.9	-- --	1,001 ± 3/1,001	-- --	-- --	1,001 ± 3/1,001
19.0-20.9	-- --	3,731 ± 3/3,731	-- --	-- --	3,731 ± 3/3,731
21.0-28.9	-- --	2,459 ± 1,437	-- --	-- --	2,459 ± 1,437
29.0-38.9	-- --	1,012 ± 3/1,012	-- --	-- --	1,012 ± 3/1,012
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	-- --	30,939 ± 11,897	4,820 ± 3,761	5,869 ± 3/5,869	41,628 ± 13,741

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 30—Cubic volume of red alder by owner and d.b.h. class, Douglas County, Oregon, January 1, 1974[1/] [2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	1,568 ± 3/1,568	940 ± 3/940	1,208 ± 860	3,715 ± 1,983
7.0-8.9	-- --	682 ± 3/682	-- --	744 ± 3/744	1,426 ± 1,010
9.0-10.9	3,323 ± 3/3,323	3,976 ± 2,002	6,946 ± 4,437	-- --	14,244 ± 5,892
11.0-12.9	3,404 ± 3/3,404	2,004 ± 1,414	-- --	-- --	5,409 ± 3,686
13.0-14.9	4,300 ± 3,344	1,601 ± 3/1,601	-- --	-- --	5,901 ± 3,707
15.0-16.9	4,506 ± 4,506	2,247 ± 3/2,247	-- --	-- --	6,753 ± 5,035
17.0-18.9	14,182 ± 13,296	6,911 ± 5,706	-- --	-- --	21,093 ± 14,468
19.0-20.9	11,578 ± 3/11,578	4,305 ± 3/4,305	1,319 ± 3/1,319	-- --	17,202 ± 12,422
21.0-28.9	3,323 ± 3/3,323	-- --	-- --	920 ± 3/920	4,243 ± 3,448
29.0-38.9	-- --	-- --	-- --	-- --	-- --
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	44,615 ± 42,534	23,294 ± 10,083	9,205 ± 4,878	2,872 ± 1,717	79,986 ± 43,995

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 31—Cubic volume of bigleaf maple by owner and d.b.h. class, Hood River County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	-- --	217 ± 197	583 ± 469	800 ± 509
7.0-8.9	1,012 ± 757	-- --	393 ± 282	822 ± 439	2,227 ± 919
9.0-10.9	680 ± 605	-- --	84 ± 3/84	560 ± 279	1,323 ± 671
11.0-12.9	2,176 ± 1,706	-- --	277 ± 215	721 ± 427	3,174 ± 1,772
13.0-14.9	275 ± 214	627 ± 3/627	216 ± 142	763 ± 621	1,881 ± 917
15.0-16.9	294 ± 185	-- --	28 ± 3/28	97 ± 3/97	419 ± 211
17.0-18.9	328 ± 244	94 ± 3/94	102 ± 77	53 ± 3/53	577 ± 277
19.0-20.9	-- --	-- --	65 ± 48	187 ± 137	252 ± 145
21.0-28.9	289 ± 200	650 ± 3/650	36 ± 3/36	108 ± 65	1,083 ± 685
29.0-38.9	281 ± 3/281	-- --	31 ± 3/31	-- --	312 ± 283
39.0 OR MORE	-- --	411 ± 3/411	-- --	— --	411 ± 3/411
ALL CLASSES	5,333 ± 2,543	1,782 ± 1,691	1,449 ± 668	3,894 ± 1,713	12,457 ± 3,563

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 32—Cubic volume of red alder by owner and d.b.h. class, Hood River County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	67 ± 3/67	979 ± 830	72 ± 3/72	266 ± 152	1,384 ± 849
7.0-8.9	1,120 ± 713	1,204 ± 811	439 ± 317	327 ± 171	3,090 ± 1,139
9.0-10.9	-- --	731 ± 668	169 ± 114	1,022 ± 434	1,921 ± 805
11.0-12.9	936 ± 757	864 ± 619	153 ± 102	556 ± 250	2,509 ± 1,015
13.0-14.9	250 ± 3/250	1,344 ± 1,057	374 ± 3/374	616 ± 302	2,584 ± 1,185
15.0-16.9	-- --	-- --	867 ± 831	482 ± 297	1,350 ± 876
17.0-18.9	458 ± 3/458	318 ± 3/318	469 ± 3/469	182 ± 152	1,428 ± 743
19.0-20.9	-- --	-- --	92 ± 3/92	196 ± 166	288 ± 188
21.0-28.9	-- --	-- --	-- --	206 ± 3/206	206 ± 3/206
29.0-38.9	-- --	-- --	-- --	-- --	-- --
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	2,832 ± 1,540	5,439 ± 2,293	2,635 ± 1,812	3,854 ± 1,130	14,759 ± 3,468

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 33—Cubic volume of bigleaf maple by owner and d.b.h. class, Jackson County, Oregon, January 1, 1975[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	1,427 ± 3/1,427	-- --	-- --	1,427 ± 3/1,427
7.0-8.9	-- --	-- --	-- --	-- --	-- --
9.0-10.9	-- --	-- --	-- --	-- --	-- --
11.0-12.9	-- --	-- --	-- --	-- --	-- --
13.0-14.9	-- --	-- --	-- --	-- --	-- --
15.0-16.9	-- --	-- --	-- --	-- --	-- --
17.0-18.9	-- --	1,313 ± 3/1,313	-- --	-- --	1,313 ± 3/1,313
19.0-20.9	-- --	1,378 ± 3/1,378	-- --	1,890 ± 3/1,890	3,268 ± 2,339
21.0-28.9	-- --	2,396 ± 3/2,396	-- --	-- --	2,396 ± 3/2,396
29.0-38.9	-- --	-- --	-- --	-- --	-- --
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	-- --	6,514 ± 3,875	-- --	1,890 ± 3/1,890	8,404 ± 4,311

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 34—Cubic volume of red alder by owner and d.b.h. class, Jackson County, Oregon, January 1, 1975[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	-- --	-- --	-- --	-- --
7.0-8.9	-- --	-- --	-- --	-- --	-- --
9.0-10.9	-- --	-- --	-- --	-- --	-- --
11.0-12.9	-- --	-- --	-- --	-- --	-- --
13.0-14.9	-- --	-- --	-- --	-- --	-- --
15.0-16.9	-- --	-- --	-- --	-- --	-- --
17.0-18.9	-- --	-- --	-- --	-- --	-- --
19.0-20.9	-- --	-- --	-- --	-- --	-- --
21.0-28.9	-- --	2,398 ± 3/2,398	-- --	-- --	2,398 ± 3/2,398
29.0-38.9	-- --	-- --	-- --	-- --	-- --
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	-- --	2,398 ± 3/2,398	-- --	-- --	2,398 ± 3/2,398

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 35—Cubic volume of bigleaf maple by owner and d.b.h. class, Josephine County, Oregon, January 1, 1975[1/] [2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	-- --	-- --	-- --	-- --
7.0-8.9	-- --	-- --	-- --	-- --	-- --
9.0-10.9	-- --	-- --	-- --	-- --	-- --
11.0-12.9	-- --	-- --	-- --	-- --	-- --
13.0-14.9	-- --	-- --	-- --	684 ± 3/684	684 ± 3/684
15.0-16.9	-- --	-- --	-- --	-- --	-- --
17.0-18.9	-- --	-- --	-- --	-- --	-- --
19.0-20.9	-- --	-- --	-- --	-- --	-- --
21.0-28.9	-- --	-- --	-- --	-- --	-- --
29.0-38.9	-- --	-- --	-- --	-- --	-- --
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	-- --	-- --	-- --	684 ± 3/684	684 ± 3/684

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 36—Cubic volume of red alder by owner and d.b.h. class, Josephine County, Oregon, January 1, 1975[1/] [2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	2,894 ± 3/2,894	-- --	-- --	2,894 ± 3/2,894
7.0-8.9	-- --	-- --	-- --	1,398 ± 3/1,398	1,398 ± 3/1,398
9.0-10.9	-- --	-- --	-- --	-- --	--- --
11.0-12.9	-- --	-- --	-- --	-- --	-- --
13.0-14.9	-- --	-- --	-- --	-- --	-- --
15.0-16.9	-- --	-- --	-- --	-- --	-- --
17.0-18.9	-- --	-- --	-- --	-- -- --	--
19.0-20.9	-- --	-- --	-- --	2,184 ± 3/2,184	2,184 ± 3/2,184
21.0-28.9	-- --	-- --	-- --	-- --	-- --
29.0-38.9	-- --	-- --	-- --	-- --	-- --
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	-- --	2,894 ± 3/2,894	-- --	3,582 ± 3/3,582	6,476 ± 4,604

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 37—Cubic volume of bigleaf maple by owner and d.b.h. class, Lane County, Oregon, January 1, 1976[1/ 2]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	1,153 ± 837	-- --	-- --	1,153 ± 837
7.0-8.9	-- --	5,044 ± 2,722	-- --	1,108 ± 3/1,108	6,152 ± 2,938
9.0-10.9	-- --	832 ± 3/832	759 ± 3/759	1,021 ± 3/1,021	2,612 ± 1,520
11.0-12.9	-- --	7,570 ± 3,507	-- --	1,104 ± 3/1,104	8,673 ± 3,676
13.0-14.9	375 ± 3/375	2,825 ± 2,003	-- --	-- --	3,201 ± 2,038
15.0-16.9	-- --	631 ± 3/631	-- --	2,394 ± 3/2,394	3,025 ± 2,476
17.0-18.9	-- --	1,500 ± 3/1,500	-- --	-- --	1,500 ± 3/1,500
19.0-20.9	-- --	4,257 ± 2,431	-- --	1,188 ± 3/1,188	5,445 ± 2,705
21.0-28.9	-- --	3,058 ± 2,094	1,085 ± 3/1,085	2,597 ± 2,036	6,740 ± 3,115
29.0-38.9	-- --	1,120 ± 3/1,120	-- --	-- --	1,120 ± 3/1,120
39.0 OR MORE	-- --	-- --	-- --	487 ± 3/487	487 ± 3/487
ALL CLASSES	375 ± 375	27,989 ± 8,115	1,844 ± 3/1,844	9,898 ± 7,699	40,107 ± 11,339

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 38—Cubic volume of red alder by owner and d.b.h. class, Lane County, Oregon, January 1, 1976[1/ 2]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	575 ± 3/575	4,513 ± 1,658	1,384 ± 3/1,384	-- --	6,472 ± 2,234
7.0-8.9	-- --	4,326 ± 2,129	-- --	-- --	4,326 ± 2,129
9.0-10.9	3,712 ± 2,337	6,966 ± 3,544	-- --	2,394 ± 1,836	13,072 ± 4,624
11.0-12.9	2,628 ± 3/2,628	2,984 ± 2,384	-- --	3,350 ± 2,562	8,961 ± 4,376
13.0-14.9	5,552 ± 3,523	9,831 ± 6,304	858 ± 3/858	4,932 ± 3/4,932	21,172 ± 8,786
15.0-16.9	1,962 ± 1,223	-- --	-- --	2,047 ± 1,384	4,009 ± 1,847
17.0-18.9	2,314 ± 3/2,314	-- --	-- --	2,986 ± 1,687	5,300 ± 2,863
19.0-20.9	1,072 ± 3/1,072	3,997 ± 2,965	932 ± 3/932	-- --	6,002 ± 3,288
21.0-28.9	1,561 ± 1,112	965 ± 3/965	-- --	1,381 ± 959	3,906 ± 1,757
29.0-38.9	-- --	-- --	912 ± 3/912	918 ± 3/918	1,830 ± 1,294
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	19,375 ± 12,649	33,582 ± 10,295	4,085 ± 3,035	18,008 ± 10,377	75,050 ± 19,479

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 39—Cubic volume of bigleaf maple by owner and d.b.h. class, Lincoln County, Oregon, January 1, 1976[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	-- --	-- --	-- --	-- --
7.0-8.9	-- --	-- --	-- --	-- --	-- --
9.0-10.9	-- --	-- --	-- --	-- --	-- --
11.0-12.9	-- --	-- --	-- --	-- --	-- --
13.0-14.9	188 ± 3/188	-- --	-- --	-- --	188 ± 3/188
15.0-16.9	-- --	-- --	-- --	1,588 ± 3/1,588	1,588 ± 3/1,588
17.0-18.9	-- --	-- --	-- --	-- --	-- --
19.0-20.9	-- --	-- --	-- --	158 ± 3/158	158 ± 3/158
21.0-28.9	-- --	1,441 ± 3/1,441	-- --	-- --	1,441 ± 3/1,441
29.0-38.9	-- --	-- --	-- --	1,303 ± 3/1,303	1,303 ± 3/1,303
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	188 ± 3/188	1,441 ± 3/1,441	-- --	3,050 ± 1,514	4,679 ± 2,099

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 40—Cubic volume of red alder by owner and d.b.h. class, Lincoln County, Oregon, January 1, 1976[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	588 ± 3/588	22,468 ± 7,877	4,582 ± 3/4,582	512 ± 3/512	28,150 ± 9,144
7.0-8.9	-- --	21,625 ± 9,330	-- --	2,952 ± 2,448	24,577 ± 9,645
9.0-10.9	3,794 ± 2,388	17,903 ± 6,277	-- --	15,629 ± 11,154	37,326 ± 13,016
11.0-12.9	2,686 ± 2,686	24,468 ± 17,628	-- --	25,365 ± 12,132	52,519 ± 21,563
13.0-14.9	5,676 ± 3,599	14,680 ± 10,002	-- --	24,467 ± 8,275	44,822 ± 13,467
15.0-16.9	2,005 ± 1,250	7,802 ± 3,667	-- --	17,411 ± 5,934	27,217 ± 7,083
17.0-18.9	2,365 ± 3/2,365	6,679 ± 3,646	-- --	14,040 ± 5,692	23,084 ± 7,159
19.0-20.9	1,096 ± 3/1,096	4,692 ± 3,418	-- --	3,645 ± 2,211	9,433 ± 4,215
21.0-28.9	1,238 ± 959	7,904 ± 4,603	-- --	16,926 ± 7,076	26,068 ± 8,494
29.0-38.9	-- --	1,495 ± 3/1,495	-- --	-- --	1,495 ± 3/1,495
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	19,448 ± 12,912	129,716 ± 40,830	4,582 ± 4,582	120,945 ± 40,781	274,691 ± 57,852

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 41—Cubic volume of bigleaf maple by owner and d.b.h. class, Linn County, Oregon, January 1, 1976[1/] [2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	1,792 ± 3/1,792	421 ± 3/421	642 ± 466	1,156 ± 834	4,011 ± 2,068
7.0-8.9	1,257 ± 3/1,257	-- --	-- --	1,787 ± 1,121	3,044 ± 1,684
9.0-10.9	-- --	603 ± 3/603	1,594 ± 3/1,594	1,160 ± 803	3,356 ± 1,883
11.0-12.9	1,355 ± 3/1,355	608 ± 3/608	1,138 ± 800	-- --	3,101 ± 1,687
13.0-14.9	1,214 ± 3/1,214	-- --	2,480 ± 1,689	968 ± 680	4,663 ± 2,171
15.0-16.9	2,812 ± 3/2,812	1,388 ± 3/1,388	1,610 ± 1,354	-- --	5,810 ± 3,415
17.0-18.9	-- --	788 ± 3/788	499 ± 3/499	2,177 ± 1,545	3,465 ± 1,791
19.0-20.9	-- --	1,175 ± 3/1,175	658 ± 3/658	1,568 ± 3/1,568	3,401 ± 2,067
21.0-28.9	-- --	1,563 ± 3/1,563	1,739 ± 1,300	5,277 ± 3,992	8,578 ± 4,472
29.0-38.9	-- --	707 ± 3/707	3,676 ± 2,247	-- --	4,384 ± 2,355
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	8,430 ± 3/8,430	7,255 ± 3,280	14,036 ± 7,819	14,092 ± 7,024	43,813 ± 13,762

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 42—Cubic volume of red alder by owner and d.b.h. class, Linn County, Oregon, January 1, 1976[1/] [2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	1,359 ± 3/1,359	1,204 ± 864	3,540 ± 3/3,540	-- --	6,103 ± 3,889
7.0-8.9	-- --	1,625 ± 3/1,625	3,743 ± 3,267	-- --	5,367 ± 3,648
9.0-10.9	7,905 ± 3/7,905	2,404 ± 3/2,404	2,930 ± 2,084	-- --	13,238 ± 8,520
11.0-12.9	-- --	795 ± 3/795	4,740 ± 3,437	-- --	5,535 ± 3,527
13.0-14.9	2,132 ± 3/2,132	871 ± 3/871	1,448 ± 3/1,448	-- --	4,451 ± 2,720
15.0-16.9	6,156 ± 5,041	-- --	-- --	995 ± 3/995	7,151 ± 5,139
17.0-18.9	-- --	731 ± 3/731	2,025 ± 3/2,025	638 ± 3/638	3,394 ± 2,246
19.0-20.9	2,507 ± 3/2,507	-- --	-- --	-- --	2,507 ± 3/2,507
21.0-28.9	-- --	1,831 ± 3/1,831	-- --	-- --	1,831 ± 3/1,831
29.0-38.9	-- --	-- --	-- --	-- --	-- --
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	20,058 ± 18,822	9,460 ± 8,976	18,426 ± 9,957	1,633 ± 1,182	49,577 ± 23,119

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 43—Cubic volume of bigleaf maple by owner and d.b.h. class, Marion County, Oregon, January 1, 1977[1/ 2/]

.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
NCHES	THOUSAND CUBIC FEET				
.0-6.9	-- --	-- --	383 ± 354	2,119 ± 1,850	2,501 ± 1,883
.0-8.9	1,256 ± 888	-- --	462 ± 393	2,731 ± 1,539	4,449 ± 1,820
.0-10.9	711 ± 581	-- --	1,334 ± 1,334	1,737 ± 1,091	3,782 ± 1,818
1.0-12.9	525 ± 320	-- --	4,406 ± 3,249	1,833 ± 997	6,763 ± 3,413
3.0-14.9	326 ± 233	587 ± 3/587	1,681 ± 1,330	1,229 ± 698	3,823 ± 1,630
5.0-16.9	704 ± 475	-- ± --	447 ± 3/447	28 ± 3/28	1,179 ± 653
7.0-18.9	527 ± 383	314 ± 3/314	1,615 ± 1,156	364 ± 3/364	2,820 ± 1,309
9.0-20.9	-- --	-- --	1,027 ± 710	438 ± 279	1,465 ± 763
1.0-28.9	837 ± 557	609 ± 3/609	575 ± 3/575	685 ± 528	2,706 ± 1,125
9.0-38.9	816 ± 3/816	-- --	488 ± 3/488	-- --	1,305 ± 951
9.0 OR MORE	-- --	384 ± 3/384	-- --	-- --	384 ± 3/384
ALL CLASSES	5,702 ± 2,538	1,894 ± 1,611	12,417 ± 5,724	11,164 ± 4,892	31,176 ± 8,073

/Totals may be off because of rounding.

/Confidence intervals are at the 0.68-probability level.

/Sampling error may be higher.

Table 44—Cubic volume of red alder by owner and d.b.h. class, Marion County, Oregon, January 1, 1977[1/ 2/]

.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
NCHES	THOUSAND CUBIC FEET				
.0-6.9	195 ± 3/195	1,359 ± 919	286 ± 3/286	1,561 ± 992	3,401 ± 1,389
.0-8.9	1,108 ± 832	1,567 ± 948	2,235 ± 1,243	1,846 ± 1,287	6,756 ± 2,132
.0-10.9	-- --	843 ± 660	2,685 ± 1,638	2,403 ± 1,091	5,931 ± 2,041
1.0-12.9	476 ± 277	836 ± 596	1,342 ± 768	964 ± 502	3,617 ± 1,129
3.0-14.9	467 ± 3/467	1,285 ± 998	108 ± 3/108	1,139 ± 532	2,998 ± 1,230
5.0-16.9	-- --	-- --	834 ± 641	1,099 ± 618	1,933 ± 881
7.0-18.9	117 ± 3/117	322 ± 3/322	135 ± 3/135	275 ± 236	849 ± 440
9.0-20.9	-- --	-- --	27 ± 3/27	281 ± 239	307 ± 241
1.0-28.9	-- --	-- --	-- --	59 ± 3/59	59 ± 3/59
9.0-38.9	-- --	-- --	-- --	-- --	-- --
9.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	2,364 ± 1,249	6,212 ± 2,506	7,651 ± 3,740	9,626 ± 3,855	25,851 ± 5,859

[Totals may be off because of rounding.

'Confidence intervals are at the 0.68-probability level.

Sampling error may be higher.

Table 45—Cubic volume of bigleaf maple by owner and d.b.h. class, Multnomah County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES			THOUSAND CUBIC FEET		
5.0-6.9	-- --	-- --	130 ± 104	701 ± 449	831 ± 461
7.0-8.9	149 ± 3/149	-- --	297 ± 188	2,273 ± 781	2,719 ± 814
9.0-10.9	36 ± 3/36	-- --	379 ± 3/379	1,719 ± 1,155	2,134 ± 1,216
11.0-12.9	198 ± 134	-- --	1,251 ± 932	3,084 ± 1,502	4,534 ± 1,773
13.0-14.9	34 ± 3/34	121 ± 3/121	617 ± 408	2,332 ± 1,259	3,103 ± 1,326
15.0-16.9	146 ± 99	-- --	127 ± 3/127	128 ± 3/128	401 ± 206
17.0-18.9	61 ± 3/61	61 ± 3/61	459 ± 332	528 ± 3/528	1,108 ± 629
19.0-20.9	-- --	-- --	292 ± 204	751 ± 431	1,042 ± 477
21.0-28.9	157 ± 114	126 ± 3/126	163 ± 3/163	458 ± 294	903 ± 375
29.0-38.9	153 ± 3/153	-- --	139 ± 3/139	-- --	291 ± 206
39.0 OR MORE	-- --	80 ± 3/80	-- --	-- --	80 ± 3/80
ALL CLASSES	933 ± 460	388 ± 333	3,853 ± 1,717	11,973 ± 4,129	17,146 ± 4,498

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 46—Cubic volume of red alder by owner and d.b.h. class. Multnomah County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES			THOUSAND CUBIC FEET		
5.0-6.9	37 ± 3/37	473 ± 379	33 ± 3/33	503 ± 289	1,044 ± 480
7.0-8.9	196 ± 156	387 ± 225	1,012 ± 539	1,035 ± 506	2,629 ± 780
9.0-10.9	-- --	172 ± 136	763 ± 474	1,191 ± 494	2,125 ± 695
11.0-12.9	143 ± 93	260 ± 189	319 ± 199	1,353 ± 630	2,075 ± 694
13.0-14.9	113 ± 3/113	350 ± 249	494 ± 3/494	1,212 ± 556	2,168 ± 780
15.0-16.9	-- --	-- --	1,265 ± 1,109	1,332 ± 618	2,598 ± 1,253
17.0-18.9	38 ± 3/38	144 ± 3/144	620 ± 3/620	533 ± 390	1,334 ± 741
19.0-20.9	-- --	-- --	121 ± 3/121	553 ± 401	675 ± 417
21.0-28.9	-- --	-- --	-- --	272 ± 3/272	272 ± 3/272
29.0-38.9	-- --	-- --	-- --	-- --	-- --
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	526 ± 282	1,785 ± 1,043	4,626 ± 2,579	7,983 ± 2,392	14,920 ± 3,582

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 47—Cubic volume of bigleaf maple by owner and d.b.h. class, Polk County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	1,019 ± 770	942 ± 561	678 ± 496	2,638 ± 1,059
7.0-8.9	162 ± 3/162	865 ± 601	868 ± 621	1,534 ± 972	3,429 ± 1,271
9.0-10.9	39 ± 3/39	3,219 ± 2,011	-- --	805 ± 631	4,063 ± 2,108
11.0-12.9	390 ± 284	-- --	333 ± 3/333	-- --	723 ± 437
13.0-14.9	37 ± 3/37	4,283 ± 2,707	-- --	530 ± 3/530	4,849 ± 2,759
15.0-16.9	144 ± 95	536 ± 3/536	-- --	-- --	680 ± 544
17.0-18.9	55 ± 55	1,330 ± 1,054	599 ± 3/599	-- --	1,984 ± 1,214
19.0-20.9	-- --	1,089 ± 770	-- --	-- --	1,089 ± 770
21.0-28.9	142 ± 104	1,040 ± 3/1,040	-- --	-- --	1,182 ± 1,045
29.0-38.9	138 ± 3/138	-- --	-- --	-- --	138 ± 3/138
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	1,107 ± 517	13,380 ± 6,416	2,742 ± 1,208	3,546 ± 1,840	20,776 ± 6,728

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 48—Cubic volume of red alder by owner and d.b.h. class, Polk County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	33 ± 3/33	435 ± 3/435	-- --	-- --	468 ± 436
7.0-8.9	236 ± 169	3,520 ± 2,095	374 ± 3/374	776 ± 3/776	4,907 ± 2,272
9.0-10.9	-- --	5,123 ± 3,124	407 ± 3/407	349 ± 3/349	5,879 ± 3,170
11.0-12.9	216 ± 145	5,289 ± 2,684	859 ± 3/859	1,295 ± 924	7,659 ± 2,913
13.0-14.9	123 ± 3/123	7,942 ± 4,584	399 ± 3/399	3,559 ± 2,721	12,022 ± 5,336
15.0-16.9	-- --	7,779 ± 3,524	531 ± 3/531	1,175 ± 852	9,485 ± 3,647
17.0-18.9	82 ± 3/82	3,869 ± 2,404	241 ± 3/241	1,250 ± 916	5,443 ± 2,585
19.0-20.9	-- --	3,324 ± 1,862	-- --	-- --	3,324 ± 1,862
21.0-28.9	-- --	6,498 ± 3,706	-- --	-- --	6,498 ± 3,706
29.0-38.9	-- --	656 ± 3/656	-- --	-- --	656 ± 3/656
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	690 ± 351	44,434 ± 15,441	2,810 ± 2,263	8,405 ± 5,510	56,340 ± 16,395

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 49—Cubic volume of bigleaf maple by owner and d.b.h. class, Tillamook County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	1,055 ± 739	-- --	926 ± 576	1,980 ± 936
7.0-8.9	-- --	1,895 ± 1,895	-- --	1,444 ± 1,021	3,339 ± 2,153
9.0-10.9	-- --	1,322 ± 659	-- --	-- --	1,322 ± 659
11.0-12.9	856 ± 3/856	362 ± 3/362	-- --	1,189 ± 769	2,407 ± 1,206
13.0-14.9	-- --	649 ± 3/649	753 ± 3/753	517 ± 3/517	1,919 ± 1,072
15.0-16.9	1,174 ± 3/1,174	917 ± 3/917	73 ± 3/73	338 ± 3/338	2,502 ± 1,529
17.0-18.9	1,072 ± 3/1,072	243 ± 3/243	719 ± 3/719	-- --	2,034 ± 1,313
19.0-20.9	-- --	-- --	558 ± 3/558	586 ± 3/586	1,144 ± 741
21.0-28.9	-- --	-- --	1,427 ± 1,046	2,618 ± 2,031	4,045 ± 2,159
29.0-38.9	-- --	-- --	777 ± 578	2,185 ± 1,424	2,962 ± 1,522
39.0 OR MORE	-- --	-- --	-- --	375 ± 3/375	375 ± 3/375
ALL CLASSES	3,102 ± 3/3,102	6,444 ± 3,302	4,306 ± 2,818	10,177 ± 5,325	24,029 ± 7,328

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 50—Cubic volume of red alder by owner and d.b.h. class, Tillamook County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	13,898 ± 4,385	5,191 ± 1,893	1,087 ± 3/1,087	3,235 ± 1,482	23,412 ± 5,096
7.0-8.9	16,819 ± 4,872	6,646 ± 1,799	1,975 ± 1,276	6,602 ± 3,128	32,042 ± 6,152
9.0-10.9	30,839 ± 8,649	12,149 ± 3,728	54 ± 3/54	5,593 ± 2,299	48,634 ± 9,692
11.0-12.9	17,522 ± 6,608	11,810 ± 2,766	2,168 ± 1,263	5,863 ± 3,106	37,362 ± 7,814
13.0-14.9	14,343 ± 4,266	9,847 ± 2,597	2,346 ± 1,284	1,086 ± 648	27,621 ± 5,171
15.0-16.9	2,654 ± 1,745	6,156 ± 1,946	2,383 ± 1,690	1,016 ± 721	12,210 ± 3,175
17.0-18.9	4,241 ± 2,151	5,425 ± 1,873	2,097 ± 1,678	1,186 ± 692	12,949 ± 3,327
19.0-20.9	2,541 ± 1,608	2,383 ± 1,103	707 ± 3/707	494 ± 380	6,124 ± 2,107
21.0-28.9	3,066 ± 2,015	2,746 ± 1,506	3,580 ± 2,650	3,633 ± 1,569	13,024 ± 3,778
29.0-38.9	482 ± 3/482	399 ± 3/399	-- --	587 ± 3/587	1,469 ± 858
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	106,404 ± 23,396	62,752 ± 11,388	16,396 ± 8,813	29,295 ± 9,176	214,846 ± 28,194

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

able 51—Cubic volume of bigleaf maple by owner and d.b.h. class, Washington County, Oregon, anuary 1, 1977[1/] [2/]

B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
NCHES	THOUSAND CUBIC FEET				
0-6.9	-- --	550 ± 408	887 ± 514	701 ± 534	2,138 ± 826
0-8.9	2,895 ± 2,154	987 ± 685	901 ± 638	3,112 ± 2,163	7,895 ± 3,173
0-10.9	1,927 ± 1,707	1,411 ± 833	-- --	1,713 ± 1,218	5,051 ± 2,256
.0-12.9	3,400 ± 2,974	-- --	283 ± 3/283	-- --	3,682 ± 2,987
.0-14.9	784 ± 606	3,598 ± 2,504	-- --	685 ± 3/685	5,066 ± 2,666
.0-16.9	938 ± 593	555 ± 3/555	-- --	-- --	1,494 ± 812
.0-18.9	995 ± 721	732 ± 518	775 ± 3/775	-- --	2,501 ± 1,178
.0-20.9	-- --	1,187 ± 841	-- --	-- --	1,187 ± 841
.0-28.9	991 ± 658	1,077 ± 3/1,077	-- --	-- --	2,069 ± 1,262
.0-38.9	966 ± 3/966	-- --	-- --	-- --	966 ± 3/966
.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	12,896 ± 6,176	10,097 ± 5,205	2,846 ± 1,259	6,210 ± 3,540	32,049 ± 8,824

/Totals may be off because of rounding.

/Confidence intervals are at the 0.68-probability level.

/Sampling error may be higher.

able 52—Cubic volume of red alder by owner and d.b.h. class, Washington County, Oregon, anuary 1, 1977[1/] [2/]

B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
NCHES	THOUSAND CUBIC FEET				
0-6.9	231 ± 3/231	72 ± 3/72	-- --	-- --	304 ± 242
0-8.9	2,699 ± 1,594	3,263 ± 2,203	484 ± 3/484	660 ± 3/660	7,106 ± 2,839
0-10.9	-- --	4,434 ± 3,137	520 ± 3/526	297 ± 3/297	5,256 ± 3,194
.0-12.9	1,904 ± 1,392	4,211 ± 1,944	1,110 ± 3/1,110	1,590 ± 1,145	8,816 ± 2,780
.0-14.9	735 ± 3/735	6,044 ± 3,377	1,791 ± 3/1,791	4,347 ± 3,481	12,918 ± 5,207
.0-16.9	-- --	5,976 ± 2,913	686 ± 3/686	1,318 ± 1,008	7,980 ± 3,123
.0-18.9	205 ± 3/205	1,680 ± 982	1,085 ± 3/1,085	1,414 ± 1,097	4,384 ± 1,841
.0-20.9	-- --	1,446 ± 868	-- --	-- --	1,446 ± 868
.0-28.9	-- --	2,194 ± 1,250	-- --	-- --	2,194 ± 1,250
.0-38.9	-- --	176 ± 3/176	-- --	-- --	176 ± 3/176
.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	5,775 ± 2,994	29,498 ± 12,714	5,682 ± 4,018	9,626 ± 6,703	50,580 ± 14,941

]Totals may be off because of rounding.

[Confidence intervals are at the 0.68-probability level.

[Sampling error may be higher.

Table 53—Cubic volume of bigleaf maple by owner and d.b.h. class, Yamhill County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	-- --	543 ± 401	1,348 ± 819	628 ± 452	2,519 ± 998
7.0-8.9	82 ± 3/82	516 ± 360	1,182 ± 865	1,697 ± 1,018	3,476 ± 1,366
9.0-10.9	72 ± 3/72	1,771 ± 1,106	-- --	1,086 ± 800	2,929 ± 1,366
11.0-12.9	354 ± 252	-- --	498 ± 3/498	-- --	852 ± 558
13.0-14.9	24 ± 3/24	2,117 ± 1,279	-- --	624 ± 3/624	2,765 ± 1,423
15.0-16.9	58 ± 3/58	223 ± 3/223	-- --	-- --	281 ± 230
17.0-18.9	69 ± 50	769 ± 606	706 ± 3/706	-- --	1,544 ± 932
19.0-20.9	-- --	554 ± 399	-- --	-- --	554 ± 399
21.0-28.9	111 ± 84	433 ± 3/433	-- --	-- --	544 ± 441
29.0-38.9	108 ± 3/108	-- --	-- --	-- --	108 ± 3/108
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	877 ± 407	6,925 ± 3,226	3,734 ± 1,665	4,034 ± 1,997	15,571 ± 4,049

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

Table 54—Cubic volume of red alder by owner and d.b.h. class, Yamhill County, Oregon, January 1, 1977[1/ 2/]

D.B.H. CLASS	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISCELLANEOUS PRIVATE	ALL OWNERSHIPS
INCHES	THOUSAND CUBIC FEET				
5.0-6.9	26 ± 3/26	85 ± 3/85	-- --	-- --	111 ± 89
7.0-8.9	207 ± 132	1,965 ± 1,217	441 ± 3/441	1,162 ± 3/1,162	3,775 ± 1,744
9.0-10.9	-- --	2,744 ± 1,780	479 ± 3/479	523 ± 3/523	3,746 ± 1,916
11.0-12.9	89 ± 3/89	2,852 ± 1,504	1,012 ± 3/1,012	1,200 ± 928	5,153 ± 1,954
13.0-14.9	-- --	4,162 ± 2,406	730 ± 3/730	4,014 ± 3,182	8,907 ± 4,051
15.0-16.9	-- --	4,170 ± 1,905	626 ± 3/626	1,530 ± 1,088	6,325 ± 2,241
17.0-18.9	160 ± 3/160	2,118 ± 1,307	442 ± 3/442	1,618 ± 1,158	4,338 ± 1,809
19.0-20.9	-- --	1,735 ± 966	-- --	-- --	1,735 ± 966
21.0-28.9	-- --	3,461 ± 2,043	-- --	-- --	3,461 ± 2,043
29.0-38.9	-- --	331 ± 3/331	-- --	-- --	331 ± 3/331
39.0 OR MORE	-- --	-- --	-- --	-- --	-- --
ALL CLASSES	482 ± 265	23,623 ± 8,471	3,730 ± 2,813	10,047 ± 6,828	37,882 ± 10,992

1/Totals may be off because of rounding.

2/Confidence intervals are at the 0.68-probability level.

3/Sampling error may be higher.

etric Equivalents

1,000 acres = 404.7 hectares (ha)
1,000 cubic feet = 28.3 cubic meters (m^3)
1 cubic foot per acre = 0.07 cubic meter per hectare (m^3/ha)
1 mile = 1.609 kilometers (km)
1 foot = 0.3048 meter (m)
1 inch = 2.54 centimeters (cm)

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Poppino, John H.; Gedney, Donald R. The hardwood resource in western Oregon. Resour. Bull. PNW-116. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; **1984.** 37 p.

The hardwood resource in western Oregon is described by species and ownership. Changes in the private hardwood resource between 1961-62 and 1973-76 are shown. Statistics of size, volume, and ownership by county are presented for red alder (*Alnus rubra* Bong.) and bigleaf maple (*Acer macrophyllum* Pursh).

Keywords: Hardwoods, timber resources, resources (forest), red alder, *Alnus rubra,* bigleaf maple, *Acer macrophyllum,* western Oregon, Oregon (western).

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Timber Resource Statistics for the Ketchikan Inventory Unit, Alaska, 1974

Willem W.S. van Hees

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Abstract

van Hees, Willem W. S. Timber resource statistics for the Ketchikan inventory unit, Alaska, 1974. Resour. Bull. PNW-117. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1984. 33 p.

Statistics on forest area, total gross and net timber volumes, and annual net growth and mortality are presented from the 1974 timber inventory of the Ketchikan unit, Alaska. Timberland area is estimated at 1.16 million acres (470 040 ha), net growing stock volume at 6.39 billion cubic feet (181.04 million m^3), and annual net growth and mortality at -33.12 million cubic feet and 55.56 million cubic feet (-0.94 and 1.57 million m^3), respectively.

Keywords: Forest surveys, timber resources, timber inventory resources (forest), statistics (forest), Alaska (southeast), southeast Alaska.

Summary

This report for the 3.304-million-acre (1.337-million-ha) Ketchikan timber inventory unit is the fifth in a series of six reports for southeast Alaska. The Ketchikan unit is at the southern end of the southeast Alaska panhandle and stretches from near Bradfield Canal at the northern end to Dixon Entrance and the Canadian border on the southern end. It is bounded on the west by Clarence Strait and on the east by the Canadian border. Except for cities, towns, private inholdings, and public land withdrawals, the unit is entirely within the Tongass National Forest.

This is the first general reinventory of the forests in the Ketchikan unit, which were first inventoried in 1957. It is also the second remeasurement of the growth and mortality plots established in 1957; they were also remeasured in 1968.

Statistics on forest area, total gross and net timber volumes, and annual net growth and mortality are presented from the 1974 timber resources inventory of the Ketchikan unit. Timberland area is estimated at 1.16 million acres (470 040 ha), net growing stock volume at 6.39 billion cubic feet (181.04 million m^3), and net annual growth and mortality at -33.12 and 55.56 million cubic feet (-0.94 and 1.57 million m^3), respectively.

Preface

Forest Inventory and Analysis (formerly Forest Survey) is a nationwide project of the USDA Forest Service authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. Work units of the project, located at Forest Service Experiment Stations, conduct forest resource inventories throughout the 50 States. The Pacific Northwest Forest and Range Experiment Station at Portland, Oregon, is responsible for inventories in Alaska, California, Hawaii, Oregon, and Washington.

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Highlights

	Thousand acres	*Thousand hectares*
Total Ketchikan inventory unit area:	3,304.83	1 337.42
With forests	2,214.27	896.08
With nonforest	1,070.33	433.15
With non-Census water	20.23	8.19
With Census water	1/	1/
Forested area:		
Timberland	1,161.50	470.04
Other forest land	1,052.77	426.04
Timberland composition:		
Old-growth sawtimber	1,106.51	447.79
Young-growth sawtimber	20.13	8.15
Poletimber	7.53	3.05
Seedlings and saplings, and nonstocked	27.33	11.06
Timberland forest type composition:		
Pacific silver fir	6.78	2.74
Sitka spruce	51.89	21.00
Hemlock-spruce	91.14	36.88
Western redcedar	149.01	60.30
Western hemlock	582.73	235.82
Mountain hemlock	173.31	70.14
Alaska-cedar	94.90	38.40
Lodgepole pine	1/	1/
Other softwoods	1/	1/
Red alder	0.69	0.28
Black Cottonwood	11.04	4.47
Other hardwoods	1/	1/

1/ No data were collected.

	All Growing Stock		Sawtimber Growing Stock	
	Million cubic feet 2/	*Million cubic meters* 2/	*Million board feet* 3/	*Million cubic meters* 4/
Volumes on timberland:				
Total gross volume	7,163.23	202.84	37,695.41	188.81
Total net volume	6,393.43	181.04	27,675.15	163.87
Annual net growth	-33.12	-.94	-180.19	-.96
Annual net mortality	55.56	1.57	253.80	1.32

2/ Volume of roundwood for live trees 5.0 inches (12.7 cm) in d.b.h. and larger.

3/ Net volume, International 1/4-inch rule, for trees 11.0 inches (28 cm) in d.b.h. and larger.

4/ Volume of roundwood for trees 11.0 inches (28 cm) in d.b.h. and larger.

Introduction

This report for the 3.304-million-acre (1.337-million-ha) Ketchikan timber inventory unit is the fifth in a series of six reports for southeast Alaska. The Ketchikan inventory unit is between 54°45' and 56°30' north latitude and 130°00' and 132°00' west longitude in the panhandle of southeast Alaska (fig. 1). Except for cities, towns, private inholdings, and public land withdrawals, the unit is entirely within the Tongass National Forest.

Although the city of Ketchikan has an elevation of only 15 feet (4.6 m) above sea level, the unit itself is mostly mountainous. The Ketchikan unit has a cool maritime climate. Summer temperatures range from 48 °F to 66 °F (8.9 °C to 18.9 °C) and winter temperatures vary between 30 °F and 42 °F (-1.1 °C to 6.1 °C). Annual precipitation is approximately 150 inches (381 cm), which includes about 30 inches (76 cm) of snow.

Most of the unit lies in a geological classification known as coastal foothills. These hills are composed of slate, phyllite, quartzite, and schist with interlayered beds of marble and gneiss. Other areas in the unit contain intrusive granitic rocks.

The geology creates two general soil types. On mountain tops and slopes above timberline there are gravelly soils that support little or no vegetation. Below these elevations soils also tend to be gravelly but begin to include silt and loam; they usually develop over shallow bedrock with rock outcroppings.

This is the first general reinventory of the forests in the Ketchikan unit, which were first inventoried in 1957. It is also the second remeasurement of the growth and mortality plots established in 1957; they were also remeasured in 1968.

Statistics on forest area, total gross and net timber volumes, and annual net growth and mortality are presented from the 1974 timber resources inventory of the Ketchikan unit. Timberland area is estimated at 1.16 million acres (470 040 ha), net growing stock volume at 6.39 billion cubic feet (181.04 million m^3), and net annual growth and mortality at -33.12 and 55.56 million cubic feet (-0.94 and 1.57 million m^3), respectively.

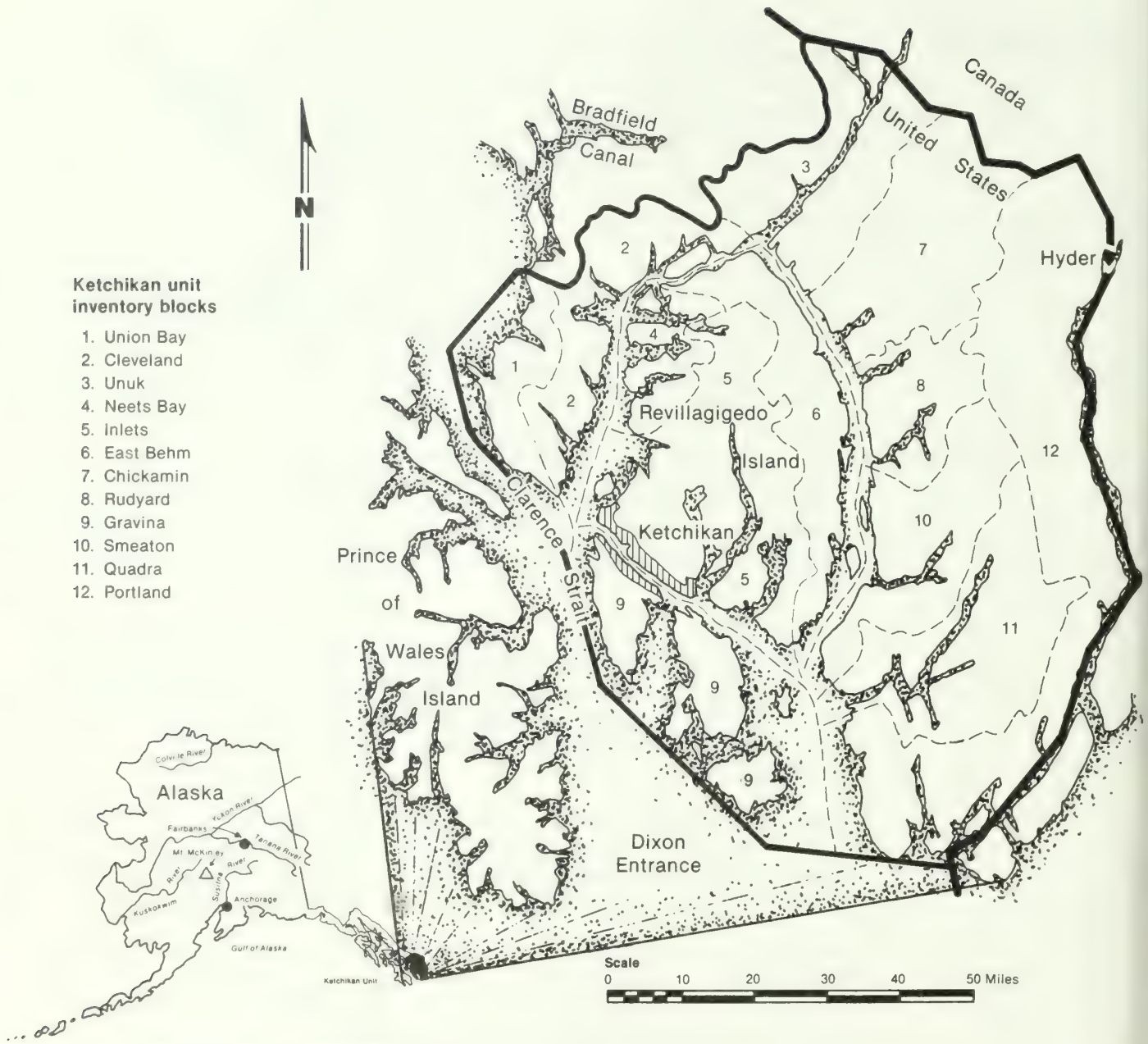

Figure 1.--Ketchikan inventory unit.

Inventory Procedures

The estimates of area and timber volumes from the 1974 timber reinventory are based on a double sampling (2-phase) technique (Bickford 1952). In the first sampling phase, 15,867 photo points were systematically distributed over 1:15,840 scale aerial photographs, then interpreted. Each photo point was classified by land type. From the 15,867 photo points, a field sample of 203 ground plots was selected. Tree measurements were made on these plots in the second sampling phase. Corrected area classifications and measurements of volume on these ground plots served as the basis for the area and volume estimates presented in this report.

Estimates of growth and mortality volumes presented are from 1974 remeasurements of 78 timber inventory plots established in 1957. Growth information from the reinventory plots was based on increment borings; the mortality estimates were based on estimations of the number of years since the trees died. Because mortality information is difficult to obtain this way, we used both the mortality and growth information from the remeasurement data rather than that from the reinventory data. The area base for the 1974 estimates of growth and mortality was calibrated to coincide with the area found in the 1974 timber reinventory.

Ownership Statistics

Statistics on land ownership are not presented in this report because of uncertainties of land status changes associated with Alaska Native and State of Alaska land selections and wilderness area withdrawals. These changes in land status are the result of Federal legislation: the Alaska Statehood Act of 1958, Public Law 85-508; the Alaska Native Claims Settlement Act of 1971, Public Law 92-203; and the Alaska National Interest Lands Conservation Act, Public Law 96-487. Alaska Native land selections and decisions on wilderness withdrawals seemed nearly settled as of 1982, but Alaska State selections will remain uncertain for the next 5-10 years. Fieldwork for our study was completed in 1974; we have delayed publishing the results, anticipating that shifts in land ownership would be resolved by now and the information on ownership could be reprocessed and resummarized for inclusion here.

With the promise of further delays in resolving ownership changes, we decided to release the statistics available now. Statistics on ownership and reserved land status plus a resource analysis will be presented in the future when the status of land shifts is clearer. It is clear now, however, that the Alaska Native and State of Alaska land selections are concentrating more on timberlands, which will leave a reduced proportion of the better timberland in Federal ownership.

Timber Harvesting

A summary of timber volumes cut in the Ketchikan area of the Tongass National Forest are provided in table 24. This area coincides with the inventory boundaries used by Forest Inventory and Analysis (FIA); the volume-cut figures provide an estimate of the amount of logging activity occurring in the area from shortly after the 1974 inventory through 1980.

Reliability of Inventory Data

All area and volume statistics reported here are estimates based on sampling and are subject to sampling error. Sampling errors for all the estimates presented in the tables are available on request. The reliability of the inventory is expressed in terms of relative sampling error at the 68-percent confidence level.

	Design sampling error	Sampling error achieved	Sampling error of the total estimate
		Percent	
Timberland area:			
Per million acres	3.0	2.8	
For the total 1.16 million acres			2.6
Other forest land area:			
Per million acres	10.0	5.7	
For the total 1.05 million acres			5.6
Net growing stock volume on timberland:			
Per billion cubic feet	10.0	10.6	
For the total 6.39 billion ft^3			4.2
Net growth of growing stock on timberland:			
Per billion cubic feet	10.0	1.7	
For the total 47.62 million ft^3			7.9

For the Ketchikan inventory unit, we estimate 6.393 billion cubic feet of net growing-stock volume, $\pm$ 10.6 percent, yielding 68-percent confidence limits of 5.715 and 7.071 billion cubic feet. A 68-percent confidence level means that upon repeated sampling, about 68 percent of the confidence intervals constructed for each sample would capture the true value of the parameter being estimated.

Terminology 5/

Allowable cut--The volume of timber that could be cut on timberland during a given period under specified management plans for sustained production, such as those in effect on National Forests.

Census water--Areas of water classed as water by the Bureau of the Census that are at least 40 acres (16 ha) in size with a minimum width of one-eighth mile (200 m). (Also see non-Census water.)

Class of timber--A classification of trees as growing stock, cull, and salvable dead. Growing stock trees are subdivided into poletimber and sawtimber trees.

Commercial species--A tree species suitable for industrial wood products.

Cull logs--Softwood sawtimber logs with two-thirds or more of the board-foot volume in cull material. Hardwood sawtimber logs with one-half or more of the volume in cull material.

Cull material--Portions of a tree unusable for industrial products because of rot, form, or other defect.

Cull trees--Live trees of sawtimber or poletimber size that are not merchantable for saw logs nor are they likely to become merchantable because of defect, rot, or species.

D.b.h.--Diameter at breast height, a point 4-1/2 feet (1.37 m) above the ground on the uphill side of a tree, where, on a normally formed tree, the diameter is measured.

Diameter class--A classification of trees based on diameter of the tree outside the bark measured at breast height, 4-1/2 feet (1.37 m) above the ground. D.b.h. is the common abbreviation for "diameter at breast height." Each 2-inch diameter class is assigned to the appropriate even inch at midpoint. For example, the 6-inch class includes trees 5.0 through 6.9 inches d.b.h.

Established seedling--A tree 6.0 inches (15.24 cm) tall, up to 1.0 inch (2.54 cm) in diameter, with good coloration, no evidence of disease, and with a root system preferably in contact with the mineral soil. For seedlings growing on stumps or logs to be tallied, they must be well enough established to survive after the supporting material has decayed.

5/ Terminology from USDA Forest Service, Forest Service Handbook, Title 4813.1, 1967, and the manual of field instructions for the forest survey of coastal Alaska, 1970.

Forest land--Land at least 16.7 percent stocked by live trees of any size, or land formerly having such tree cover and not currently developed for nonforest use. Includes chaparral areas in the western United States and afforested areas. The minimum area for classification as forest land or subclasses of forest land is 1 acre (0.4 ha). Roadside, streamside, and shelterbelt strips of timber must be at least 120 feet (36 m) wide to be classified as forest land. Unimproved roads and trails, streams, and clearings in forest areas must be less than 120 feet wide to be classified as forest land. (Also see timberland, other forest land, reserved forest land, and nonforest land.)

Forest trees--Woody plants having a well-developed stem and usually more than 12 feet tall, including both growing stock and cull trees.

Forest types--A classification of forest land based on the species forming a plurality of stocking on the area currently occupied by tree cover. The following summarizes the forest types of coastal Alaska:

Alaska-cedar--Forests in which Alaska-cedar comprises the plurality of the stocking. Common associates are mountain or western hemlock, lodgepole pine, western redcedar, and occasionally Sitka spruce.

Black cottonwood--Forests in which cottonwood comprises the plurality of the stocking. Common associates in southeast Alaska are red alder and Sitka spruce.

Fir-spruce--Forests in which subalpine or Pacific silver fir in combination with Sitka spruce comprises the plurality of the stocking. Common associates are black cottonwood, mountain hemlock, and western hemlock.

Hemlock-spruce--Forests in which 50 percent or more of the stand is western hemlock or mountain hemlock and where Sitka spruce comprises 30-49 percent of the stocking. Common associates are Alaska-cedar, western redcedar, and occasionally cottonwood, red alder, or lodgepole pine.

Lodgepole pine--Forests in which lodgepole pine comprises the plurality of the stocking. Common associates are mountain hemlock, Alaska-cedar, and western hemlock.

Mountain hemlock--Forests in which mountain hemlock comprises the plurality of the stocking. Common associates are western hemlock and Alaska-cedar.

Other hardwoods--Forests in which noncommercial hardwoods, such as willow and alder other than red alder, comprise the plurality of the stocking. Common associates are black cottonwood and Sitka spruce.

Other softwoods--Forests in which noncommercial softwoods, such as Pacific yew, and junipers comprise the plurality of the stocking. Common associates are Alaska-cedar and mountain hemlock.

Pacific silver fir--Forests in which Pacific silver fir comprises the plurality of the stocking. Common associates are black cottonwood, Sitka spruce, mountain hemlock, and western hemlock.

Red alder--Forests in which red alder comprises the plurality of the stocking. Common associates are black cottonwood, Sitka spruce, western hemlock, and occasionally western redcedar and/or Alaska-cedar.

Sitka spruce--Forests in which Sitka spruce comprises the plurality of the stocking. Common associates are western hemlock, western redcedar, and occasionally cottonwood, red alder, and Alaska-cedar.

Subalpine fir--Forests in which subalpine fir comprises the plurality of the stocking. Common associates are black cottonwood, Sitka spruce, mountain hemlock, and western hemlock.

True fir--Forests in which Pacific silver and subalpine fir comprise the plurality of the stocking. Common associates are black cottonwood, Sitka spruce, mountain hemlock, and western hemlock.

Western hemlock--Forests in which western hemlock comprises the plurality of the stocking. Common associates are Sitka spruce, Alaska-cedar, western redcedar, mountain hemlock, and occasionally cottonwood, red alder, or lodgepole pine.

Western redcedar--Forests in which western redcedar comprises the plurality of the stocking. Common associates are Sitka spruce, western hemlock, Alaska-cedar, and occasionally cottonwood, red alder, and mountain hemlock.

Gross growth--Net annual growth plus the annual growth on mortality.

Growing stock trees--All live trees except cull trees.

Growing stock volume--Net volume in cubic feet of live sawtimber and poletimber growing stock trees from stump to a minimum 4.0-inch (10 cm) top (of central stem) outside the bark. Net volume equals gross volume less deductions for rot and missing bole sections.

Growth--See net annual growth, gross growth, and ingrowth.

Hardwoods--(1) Trees that are angiosperms, usually broad-leaved and often deciduous. (2) Forests predominantly cottonwood or red alder, singly or in combination.

Ingrowth--The net volume of trees that grew into poletimber or sawtimber growing stock during a specified year.

Inoperable timberland--Includes areas of timberland that are presently inoperable because of marginal volume (usually less than 20,000 board feet per acre) or rough, rocky, cliffy, or otherwise broken terrain. This also includes pockets of high volume timberland that are isolated or more than one-fourth mile (396 m) from operable timberland areas. (Also see operable timberland.)

International 1/4-inch rule--The standard board-foot log rule adopted nationally by the USDA Forest Service for the presentation of inventory volume statistics.

Land area--Area reported as land by the Bureau of the Census. Total land area includes dry land and land temporarily or partially covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than one-eighth mile (200 m) wide; and lakes, reservoirs, and ponds less than 40 aeres (16 ha) in area. (Also see non-Census water.)

Land class--A classification of land by major use, such as timberland, other forest, and nonforest. The minimum size area for classification is 1 acre (0.4 ha).

Log grades--A classification of logs based on external characteristics as indicators of quality or value.

Management blocks--Units delineated for timber management by the National Forest System of the USDA Forest Service, usually oriented to islands and/or watershed complexes.

Mean annual increment (MAI)--A measure of the productivity of forest land in terms of the average increase in cubic-foot volume per acre per year. The FIA minimum standard for timberland is the ability to produce 20 cubic feet per acre (1.4 m^3/ha) per year.

Merchantable height--Height of a tree expressed in the number of 16-foot (5-m) logs to a merchantable top.

Merchantable saw log--For softwood sawtimber, a merchantable saw log must be at least 12 feet (3.6 m) long to a minimum top of 7.0 inches (18 cm) outside the bark or to a top diameter inside the bark that is 40 percent of d.b.h. At least one-third of its board-foot volume must be in sound, recoverable wood. For hardwood sawtimber, a merchantable saw log must be at least 8 feet (2.5 m) long to a minimum top of 9.0 inches (23 cm) outside the bark or to a top diameter inside the bark that is 40 percent of d.b.h. At least half its board-foot volume must be in sound, recoverable wood.

Merchantable stem--For softwoods, the portion of the tree between the 1-foot (0.3-m) stump and either the top diameter of 7.0 inches (18 cm) outside the bark or to a top diameter inside the bark that is 40 percent of d.b.h., whichever is larger. For hardwoods, the portion of the tree between the 1-foot stump and either the top diameter of 9.0 inches (23 cm) outside the bark or to a top diameter inside the bark that is 40 percent of d.b.h., whichever is larger.

Merchantable top--The point on the bole of sawtimber trees above which a saw log cannot be produced. The minimum merchantable top is 7.0 inches (18 cm) outside the bark for softwoods, and 9.0 inches (23 cm) outside the bark for hardwoods.

Merchantable tree--A merchantable tree must be producing or be capable of producing at least one merchantable saw log that is at least 50-percent sound for hardwoods or 33-percent sound for softwoods, board-foot measure. All poletimber that is less than 50-percent sound, cubic-foot measure, and all saplings with any sign of rot are not considered merchantable trees, but rotten culls. All trees that are of such poor form that they will never produce a merchantable saw log are not classed as merchantable trees, but as sound culls or rough trees.

Mortality--The number of or the sound wood volume from live trees dying from natural causes during a specified period.

Mortality of growing stock--The volume of sound wood in live sawtimber and poletimber trees dying annually from natural causes during a specified period.

Mortality of sawtimber--The net board-foot volume of sawtimber trees dying annually from natural causes during a specified period.

Mortality tree--On plots being measured for the first time, a tree of commercial species at least 1 inch (2.54 cm) in d.b.h. or larger that has died within the past 5 years; on plots being remeasured, a tree of commercial species at least 1 inch in d.b.h. that has died since the previous measurement was made.

Net annual growth--The increase in net volume of wood for growing stock trees during a specified year. Components of net annual growth are: (a) the increment in net volume of trees alive at the beginning of the specified year, including that on periodic mortality, plus (b) the net volume of trees reaching sawtimber or poletimber size during the year, minus (c) the net volume of trees that died during the year, minus (d) the net volume lost to tree decay during the year.

Net volume--The gross volume of a tree less deductions for rot, sweep, or other defect affecting product use.

Non-Census water--Streams, sloughs, estuaries, and canals between 120 feet (36 m) and one-eighth mile (200 m) wide; and lakes, reservoirs, and ponds between 1 and 40 acres (0.4 and 16 ha) in area. (Also see Census water.)

Noncommercial species--Tree species of typically small size, poor form, or inferior quality that normally is not suitable for industrial products.

Nonforest land--Land that does not qualify as forest land. Includes land that has never supported forests and lands formerly forested where forest use is precluded by development for nonforest uses. Included are lands used for agricultural crops, improved pasture, residential areas, city parks, improved roads, operating railroads and their right-of-way clearings, and pipeline clearings. If intermingled in forest areas, unimproved roads, streams, canals, and nonforest strips must be more than 120 feet (36 m) wide, and clearings or other areas must be 1 acre (0.4 ha) or larger to qualify as nonforest land.

Nonstocked land--Timberland less than 16.7 percent stocked with growing stock trees.

Old-growth stands--Stands with at least 50 percent of the live-tree stocking per acre comprised of old-growth trees.

Old-growth trees--Trees that have reached or passed the age of physiological maturity, assumed to be 150 years for coastal Alaska.

Operable timberland--All timberland considered silviculturally and economically operable. This includes areas on stable soils, on slopes that are not too steep to log without causing serious site damage, and stands valuable enough to pay the logging costs using the methods and costs in effect at the time of the inventory. Stands that require new, undeveloped logging methods are not in the operable class.

Other forest land--Unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions. This includes sterile or poorly drained forest land, subalpine forests, and steep rocky areas where topographic conditions are likely to prevent management for timber production indefinitely. In coastal Alaska, this includes forest lands that are not capable of producing 8,000 board feet per acre (net International 1/4-inch rule).

Poletimber stands--Stands at least 16.7 percent stocked with growing stock trees, with half or more of this stocking in poletimber and sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Poletimber trees--Growing stock trees 5.0 to 10.9 inches (12.5 to 27.5 cm) in d.b.h.

Quality saw log--See merchantable saw log.

Reserved forest land--Forest land withdrawn from timber utilization through statute or administrative regulation.

Rotten trees--Live trees at least 5.0 inches (12.7 cm) in d.b.h. that do not contain a saw log and are not likely to, primarily because of rot.

Rotten cull trees--Live trees that do not contain a merchantable saw log and are not likely to, primarily because of rot.

Rough trees--Live trees that do not contain a merchantable saw log and are not likely to, primarily because of roughness, poor form, or they are noncommercial species.

Salvable dead trees--Standing or down dead trees of commercial species at least 11.0 inches (28 cm) in d.b.h., containing at least 50 percent of their volume in sound wood, and with at least one merchantable saw log.

Sapling stands--See seedling and sapling stands.

Sapling trees--Trees 1.0 to 4.9 inches (2.5 to 12.5 cm) in d.b.h.

Saw log--A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet (2.5 m) long, sound and straight, and with a minimum small-end diameter of 6.0 inches (15 cm) inside the bark for softwoods and 8.0 inches (20 cm) for hardwoods.

Saw-log portion--The bole of sawtimber trees between the stump and the saw-log top.

Saw-log top--The point on the bole of sawtimber trees above which a saw log cannot be produced. The minimum top diameter is 7.0 inches (18 cm) outside the bark for softwoods and 9.0 inches (23 cm) inches outside the bark for hardwoods.

Sawtimber stands--Stands at least 16.7 percent stocked with growing stock trees, with half or more of this stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to that of poletimber.

Sawtimber trees--Growing stock trees at least 11.0 inches (28 cm) in d.b.h.

Sawtimber volume--Net volume of sawtimber trees measured in board feet. Net volume equals gross volume less deduction for rot, sweep, crook, and other defects that affect use for lumber.

Scribner, bureau scale--A common timber scaling rule using 32-foot log lengths.

Scribner rule--The common board-foot timber scaling rule used locally in determining volume of sawtimber.

Seedling and sapling stands--Stands at least 16.7 percent stocked with growing stock trees and with saplings and/or seedlings comprising more than half this stocking.

Seedling--An established tree less than 1.0 inch (2.5 cm) in d.b.h.

Site class--A classification of forest land based on its capacity to grow crops of industrial wood.

Softwoods--Coniferous trees, usually evergreen with needles or scalelike leaves. Species in coastal Alaska are Sitka spruce, western hemlock, mountain hemlock, Alaska-cedar, western red-cedar, lodgepole pine, Pacific silver fir, subalpine fir, and Pacific yew.

Sound cull tree--See rough tree.

Stand age class--A classification of forest land based on the predominant age of trees in a given stand.

Stand size class--A classification of forest land based on the predominant size of timber present: sawtimber, poletimber, or seedlings and saplings.

Stocking--A measure of the area occupied by trees of specified classes. FIA forest inventories consider three categories of stocking: all live trees, growing stock trees, and desirable trees. Stocking of all live trees is used to delineate forest land and forest types. Stocking of growing stock trees is used in classifications of stand size and stand age. Stocking of desirable trees is used to delineate area condition classes.

Stump height--For all timber volume estimates, 1 foot (0.3 m).

Timber harvest--Volume of roundwood removed from forest land for products.

Timberland--Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization. Areas qualifying as timberland could produce in excess of 20 cubic feet per acre (1.4 m^3/ha) per year of industrial wood under management. In old-growth forests of coastal Alaska, this is equated to stands that could produce 8,000 board feet per acre (net International 1/4-inch rule).

Tree size class--A classification of sawtimber trees, poletimber trees, saplings, and seedlings based on the diameter at breast height.

Upper-stem portion--The bole of sawtimber trees above the saw-log top--7.0 inches (18 cm) outside the bark for softwoods and 9.0 inches (23 cm) outside the bark for hardwoods--to a minimum top diameter of 4.0 inches (10-cm) outside the bark, or to the point where the central stem breaks into limbs.

Volume of growing stock--Volume of sound wood in the bole of live growing stock sawtimber and poletimber trees from stump to a minimum 4.0-inch (10-cm) top outside the bark or to the point where the central stem breaks into limbs.

Volume of salvable dead sawtimber-sized trees--Net volume of standing or down, dead, sawtimber-sized trees that contain 50-percent sound board-foot volume.

Volume of sawtimber--Net volume of the saw-log portion of live growing stock sawtimber trees expressed in board feet.

Water--See Census water and non-Census water.

Young-growth stands--Stands with at least 50 percent of the live-tree stocking per acre comprised of young-growth trees.

Young-growth trees--Trees that have not passed the age of physiological maturity, assumed to be 150 years for coastal Alaska.

Names of Trees 6/

Common name	Scientific name
Softwoods:	
Alaska-cedar	*Chamaecyparis nootkatensis* (D. Don) Spach
Fir, Pacific silver	*Abies amabilis* (Dougl.) Forbes
Fir, subalpine	*A. lasiocarpa* (Hook.) Nutt.
Hemlock, mountain	*Tsuga mertensiana* (Bong.) Carr.
Hemlock, western	*T. heterophylla* (Raf.) Sarg.
Pine, lodgepole	*Pinus contorta* Dougl.
Redcedar, western	*Thuja plicata* Donn
Spruce, Sitka	*Picea sitchensis* (Bong.) Carr.
Yew, Pacific	*Taxus brevifolia* Nutt.
Hardwoods:	
Alder, red	*Alnus rubra* Bong.
Cottonwood, black	*Populus trichocarpa* Torr. & Gray
Willow, Barclay	*Salix barclayi* Anderss.
Willow, Bebb	*S. bebbiana* Sarg.
Willow, feltleaf	*S. alaxensis* (Anderss.) Cov.
Willow, grayleaf	*S. glauca* L.
Willow, hooker	*S. hookeriana* Barratt
Willow, Sitka	*S. sitchensis* Sanson
Willow, Pacific	*S. lasiandra* Benth.

6/ Scientific names are according to Viereck and Little (1972).

Tables

Estimates in this report are developed from statistically based samples and therefore are subject to sampling error. Sampling errors for estimates of various sizes are presented in the section "Reliability of Inventory Data."

TABLE 1--AREA OF FOREST LAND BY FOREST TYPE AND FOREST LAND CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

FOREST TYPE	TIMBERLAND	OTHER FOREST	ALL CLASSES
		THOUSAND ACRES	
SOFTWOODS:			
PACIFIC SILVER FIR	6.78	--	6.78
ALASKA-CEDAR	94.90	246.14	341.04
HEMLOCK-SPRUCE	91.14	82.09	173.23
SITKA SPRUCE	51.89	--	51.89
WESTERN REDCEDAR	149.01	88.48	237.49
MOUNTAIN HEMLOCK	173.31	246.20	419.51
WESTERN HEMLOCK	582.73	328.29	911.02
LODGEPOLE PINE	--	61.57	61.57
OTHER SOFTWOODS	--	--	--
TOTAL	1,149.77	1,052.77	2,202.54
HARDWOODS:			
RED ALDER	.69	--	.69
BLACK COTTONWOOD	11.04	--	11.04
OTHER HARDWOODS	--	--	--
TOTAL	11.73	--	11.73
ALL TYPES	1,161.50	1,052.77	2,214.27

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 2- AREA BY LAND CLASS AND MANAGEMENT BLOCK, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

LAND CLASS	UNION BAY	CLEVELAND	UNUK	NEETS BAY	INLETS	EAST BEHM	CHICKAMIN	RUDYARD	GRAVINA	SMEATON	QUADRA	PORTLAND	ALL CLASSES
						ACRES							
TIMBERLAND:													
SEEDLING AND SAPLING, AND NONSTOCKED	--	3,764	--	16,102	6,066	--	698	-	--	--	--	698	27,328
POLETIMBER	-	-	--	--	--	--	--	--	--	--	--	7,528	7,528
SAWTIMBER VOLUME STRATA 2/--													
8,000-20,000	60,960	81,321	40,653	20,315	101,597	20,269	13,558	20,315	54,188	54,031	33,935	108,606	609,747
20,001-30,000	13,355	20,269	27,156	13,513	60,673	20,269	--	13,355	6,779	13,152	54,165	20,292	262,979
30,001-50,000	6,779	6,756	26,688	13,513	62,319	6,756	15,228	6,576	13,333	13,333	20,112	20,112	211,505
50,001 OR MORE	6,756	-	--	--	1,872	13,513	--	--	--	20,269	--	--	42,411
TOTAL	87,850	112,110	94,497	63,443	232,527	60,807	29,484	40,246	74,300	100,785	108,212	157,236	1,161,498
OTHER FOREST LAND:													
ROCKY	--	6,841	--	--	--	--	6,841	6,841	-	6,841	6,841	20,522	54,726
LOW VOLUME 3/	27,363	34,058	6,841	6,779	20,522	13,558	6,841	27,363	27,301	27,240	20,461	88,868	307,194
MUSKEG FOREST	20,522	20,522	--	13,620	41,044	27,363	6,841	6,841	54,726	20,522	6,841	54,726	273,567
HIGH ELEVATION FOREST	6,841	13,681	34,204	20,522	116,292	34,204	20,522	27,363	6,841	13,681	41,044	61,566	396,761
SLIDE ZONE	-	--	--	--	--	6,841	--	--	--	--	--	13,681	20,522
OTHER NONPRODUCTIVE	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	54,726	75,102	41,045	40,921	177,858	81,966	41,045	68,408	88,868	68,284	75,187	239,363	1,052,770
NONFOREST:													
FARMS AND GRASSLANDS	--	--	--	--	--	--	--	--	--	--	--	--	--
ALDER SHRUBLAND	-	--	20,195	-	6,732	--	20,195	20,195	--	-	--	13,463	80,780
NON-ALDER SHRUBLAND	-	6,732	40,390	--	13,463	13,463	67,317	20,195	--	33,658	26,927	80,780	302,924
ALPINE MEADOW	--	6,732	--	6,732	13,463	-	6,732	20,195	--	--	13,463	13,463	80,780
MUSKEG MEADOW	6,732	-	--	--	--	6,732	--	--	--	-	--	--	13,463
URBAN AND OTHER	--	--	--	--	--	--	--	-	--	-	--	--	--
ALPINE ROCK	--	--	67,317	--	13,463	26,927	141,365	20,195	--	20,195	40,390	121,170	451,021
ICE AND SNOWFIELDS	-	--	26,927	--	--	--	67,317	--	--	--	--	47,122	141,365
TOTAL	6,732	13,464	154,829	6,732	47,121	47,122	302,926	80,780	--	53,853	80,780	275,998	1,070,333
NON-CENSUS WATER 4/	--	--	--	--	6,743	-	--	6,743	--	--	6,743	--	20,230
ALL LANDS	149,309	200,675	290,368	111,095	464,251	189,894	373,453	196,177	163,168	222,922	270,921	672,597	3,304,830

Estimates are subject to sampling error.

- = no data were collected.

1/ Totals may be off because of rounding.

2/ Board feet Scribner scale, except base value of 8,000 board feet, which is International 1/4-inch rule.

3/ Less than 8,000 board feet per acre, International 1/4-inch rule.

4/ Water as classified by Forest Inventory and Analysis standards.

TABLE 3--NUMBER OF GROWING STOCK TREES ON TIMBERLAND BY SPECIES AND DIAMETER CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)							
	SEEDLINGS LESS THAN 1.0	1.0-10.9	11.0-20.9	21.0-30.9	31.0-40.9	41.0-50.9	51.0 AND LARGER	ALL CLASSES
	THOUSAND TREES							
SOFTWOODS:								
PACIFIC SILVER FIR	36,447.45	8,621.38	820.48	418.60	112.87	4.39	--	46,425.18
ALASKA-CEDAR	97,561.12	41,195.92	8,344.60	1,560.31	180.20	8.26	7.12	148,857.52
SITKA SPRUCE	120,038.11	18,494.28	3,554.76	2,258.55	915.28	379.52	180.75	145,821.25
LODGEPOLE PINE	621.52	1,416.11	74.64	17.42	--	--	--	2,129.69
WESTERN RED CEDAR	76,572.73	27,302.19	8,244.99	2,763.89	512.62	67.64	5.95	115,470.00
WESTERN HEMLOCK	1,692,205.78	256,933.91	26,796.53	7,605.17	2,173.39	400.78	40.59	1,986,156.13
MOUNTAIN HEMLOCK	178,369.67	61,797.80	10,358.78	2,833.69	611.27	28.15	--	253,999.35
TOTAL	2,201,816.38	415,761.61	58,194.78	17,457.63	4,505.61	888.73	234.40	2,698,859.13
HARDWOODS:								
RED ALDER	2,179.95	5,244.71	359.55	--	--	--	--	7,784.24
BLACK COTTONWOOD	1,312.39	1,715.42	60.94	18.05	40.05	11.44	--	3,158.29
OTHER HARDWOODS	--	--	--	--	--	--	--	--
TOTAL	3,492.34	6,960.15	420.49	18.05	40.05	11.44	--	10,942.53
ALL SPECIES	2,205,308.71	422,721.77	58,615.26	17,475.68	4,545.66	900.17	234.40	2,709,801.66

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 4--NUMBER OF GROWING STOCK TREES ON OLD-GROWTH TIMBERLAND BY SPECIES AND DIAMETER CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

ALL SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)							
	SEEDLINGS LESS THAN 1.0	1.0-10.9	11.0-20.9	21.0-30.9	31.0-40.9	41.0-50.9	51.0 AND LARGER	CLASSES
	THOUSAND TREES							
SOFTWOODS:								
PACIFIC SILVER FIR	34,701.02	8,071.78	820.48	418.60	112.87	4.39	--	44,129.14
ALASKA-CEDAR	97,561.12	41,195.92	8,344.60	1,560.31	180.20	8.26	7.12	148,857.52
SITKA SPRUCE	103,617.32	14,805.11	2,991.79	2,124.18	896.16	356.00	180.75	124,971.31
LODGEPOLE PINE	621.52	1,416.11	74.64	17.42	--	--	--	2,129.69
WESTERN REDCEDAR	76,326.69	27,246.49	8,244.99	2,763.89	512.62	67.64	5.95	115,168.26
WESTERN HEMLOCK	1,602,016.69	247,599.43	25,603.91	7,535.99	2,146.95	400.78	40.59	1,885,344.33
MOUNTAIN HEMLOCK	177,334.48	60,248.75	10,245.58	2,833.69	611.27	28.15	--	251,301.91
TOTAL	2,092,178.83	400,583.60	56,325.99	17,254.08	4,460.06	865.21	234.40	2,571,902.16
HARDWOODS:								
RED ALDER	621.52	2,933.23	249.32	--	--	--	--	3,804.07
BLACK COTTONWOOD	--	--	--	9.47	40.05	11.44	--	60.96
OTHER HARDWOODS	--	--	--	--	--	--	--	--
TOTAL	621.52	2,933.23	249.32	9.47	40.05	11.44	--	3,865.03
ALL SPECIES	2,092,800.34	403,516.83	56,575.31	17,263.55	4,500.11	876.65	234.40	2,575,767.19

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 5--NUMBER OF GROWING STOCK TREES ON YOUNG-GROWTH TIMBERLAND BY SPECIES AND DIAMETER CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)							
	SEEDLINGS LESS THAN 1.0	1.0-10.9	11.0-20.9	21.0-30.9	31.0-40.9	41.0-50.9	51.0 AND LARGER	ALL CLASSES
	THOUSAND TREES							
SOFTWOODS:								
PACIFIC SILVER FIR	1,746.44	549.60	--	--	--	--	--	2,296.04
ALASKA-CEDAR	--	--	--	--	--	--	--	--
SITKA SPRUCE	16,420.79	3,689.17	562.97	134.37	19.12	23.52	--	20,849.94
LODGEPOLE PINE	--	--	--	--	--	--	--	--
WESTERN REDCEDAR	246.04	55.70	--	--	--	--	--	301.74
WESTERN HEMLOCK	90,189.09	9,334.48	1,192.62	69.18	26.44	--	--	100,811.80
MOUNTAIN HEMLOCK	1,035.19	1,549.05	113.20	--	--	--	--	2,697.44
TOTAL	109,637.55	15,178.01	1,868.79	203.55	45.55	23.52	--	126,956.97
HARDWOODS:								
RED ALDER	1,558.43	2,311.51	110.23	--	--	--	--	3,980.17
BLACK COTTONWOOD	1,312.39	1,715.42	60.94	8.58	--	--	--	3,097.33
OTHER HARDWOODS	--	--	--	--	--	--	--	--
TOTAL	2,870.82	4,026.93	171.17	8.58	--	--	--	7,077.50
ALL SPECIES	112,508.37	19,204.94	2,039.95	212.13	45.55	23.52	--	134,034.47

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 6--NUMBER OF GROWING STOCK MORTALITY TREES PER YEAR ON TIMBERLAND BY SPECIES AND DIAMETER CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)						
	1.0-10.9	11.0-20.9	21.0-30.9	31.0-40.9	41.0-50.9	51.0 AND LARGER	ALL CLASSES
	THOUSAND TREES						
SOFTWOODS:							
PACIFIC SILVER FIR	310.76	--	--	--	--	--	310.76
ALASKA-CEDAR	--	79.86	26.38	29.75	--	--	135.99
SITKA SPRUCE	929.13	54.66	105.69	41.57	3.85	--	1,134.90
LODGEPOLE PINE	--	--	--	--	--	--	--
WESTERN REDCEDAR	715.03	74.23	62.57	25.79	--	--	877.62
WESTERN HEMLOCK	3,715.97	986.63	313.83	91.80	8.85	3.92	5,121.00
MOUNTAIN HEMLOCK	780.85	103.06	27.47	7.84	4.39	--	923.61
TOTAL	6,451.74	1,298.44	535.94	196.75	17.09	3.92	8,503.88
HARDWOODS:							
RED ALDER	--	--	--	--	--	--	--
BLACK COTTONWOOD	--	--	9.39	--	--	--	9.39
OTHER HARDWOODS	--	--	--	--	--	--	--
TOTAL	--	--	9.39	--	--	--	9.39
ALL SPECIES	6,451.74	1,298.44	545.33	196.75	17.09	3.92	8,513.27

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 7--NET VOLUME OF GROWING STOCK ON TIMBERLAND, IN CUBIC FEET AND VOLUME PER ACRE, BY FOREST TYPE AND STAND SIZE CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

FOREST TYPE AND UNIT	SAWTIMBER		POLETIMBER	SEEDLINGS AND SAPLINGS	NONSTOCKED	ALL CLASSES
	OLD GROWTH	YOUNG GROWTH				
PACIFIC SILVER FIR:						
FT^3	39,069,890	--	--	--	--	39,069,890
ACRES	6,779	--	--	--	--	6,779
FT^3/ACRE	5,763	--	--	--	--	5,763
ALASKA CEDAR:						
FT^3	442,119,347	--	--	--	--	442,119,347
ACRES	94,902	--	--	--	--	94,902
FT^3/ACRE	4,659	--	--	--	--	4,659
HEMLOCK-SPRUCE:						
FT^3	608,873,555	30,227,409	--	0	--	639,100,906
ACRES	73,622	6,779	--	10,734	--	91,136
FT^3/ACRE	8,270	4,459	--	0	--	7,013
SITKA SPRUCE:						
FT^3	302,113,606	35,915,856	--	167,861	--	338,197,321
ACRES	44,413	6,779	--	698	--	51,890
FT^3/ACRE	6,802	5,298	--	240	--	6,518
WESTERN REDCEDAR:						
FT^3	563,573,286	--	--	--	--	563,573,286
ACRES	149,005	--	--	--	--	149,005
FT^3/ACRE	3,782	--	--	--	--	3,782
MOUNTAIN HEMLOCK:						
FT^3	903,210,125	--	3,495,224	--	--	906,705,350
ACRES	169,550	--	3,764	--	--	173,315
FT^3/ACRE	5,327	--	929	--	--	5,231
WESTERN HEMLOCK:						
FT^3	3,356,224,678	51,154,228	--	5,840,187	--	3,413,219,072
ACRES	561,657	6,576	--	14,498	--	582,732
FT^3/ACRE	5,976	7,779	--	403	--	5,857
LODGEPOLE PINE:						
FT^3	--	--	--	--	--	--
ACRES	--	--	--	--	--	--
FT^3/ACRE	--	--	--	--	--	--
RED ALDER:						
FT^3	--	--	--	--	0	0
ACRES	--	--	--	--	698	698
FT^3/ACRE	--	--	--	--	0	0
BLACK COTTONWOOD:						
FT^3	44,210,360	--	7,095,345	141,501	--	51,447,205
ACRES	6,576	--	3,764	698	--	11,038
FT^3/ACRE	6,723	--	1,885	203	--	4,661
ALL TYPES:						
FT^3	6,259,394,157	117,297,493	10,590,569	6,149,549	0	6,393,431,744
ACRES	1,106,506	20,134	7,528	26,629	698	1,161,496
FT^3/ACRE	5,657	5,826	1,407	231	0	5,504

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 8--NET VOLUME OF SAWTIMBER ON TIMBERLAND, IN BOARD FEET INTERNATIONAL 1/4-INCH RULE AND VOLUME PER ACRE, BY FOREST TYPE AND STAND SIZE CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

FOREST TYPE AND UNITS	SAWTIMBER		POLETIMBER	SEEDLINGS AND SAPLINGS	NONSTOCKED	ALL CLASSES
	OLD GROWTH	YOUNG GROWTH				
PACIFIC SILVER FIR:						
FBM 2/	150,341,096	--	--	--	--	150,341,096
ACRES	6,779	--	--	--	--	6,779
FBM/ACRE	22,177	--	--	--	--	22,177
ALASKA-CEDAR:						
FBM	1,691,096,921	--	--	--	--	1,691,096,921
ACRES	94,902	--	--	--	--	94,902
FBM/ACRE	17,819	--	--	--	--	17,819
HEMLOCK-SPRUCE:						
FBM	3,156,377,260	149,416,884	--	0	--	3,305,794,131
ACRES	73,622	6,779	--	10,734	--	91,136
FBM/ACRE	42,872	22,041	--	0	--	36,273
SITKA SPRUCE:						
FBM	1,619,437,376	181,374,691	--	0	--	1,800,812,032
ACRES	44,413	6,779	--	698	--	51,890
FBM/ACRE	36,463	26,755	--	0	--	34,704
WESTERN REDCEDAR:						
FBM	2,012,586,604	--	--	--	--	2,012,586,604
ACRES	149,005	--	--	--	--	149,005
FBM/ACRE	13,507	--	--	--	--	13,507
MOUNTAIN HEMLOCK:						
FBM	3,729,842,752	--	3,343,093	--	--	3,733,185,862
ACRES	169,550	--	3,764	--	--	173,315
FBM/ACRE	21,998	--	888	--	--	21,540
WESTERN HEMLOCK:						
FBM	14,466,583,763	245,555,804	--	13,086,099	--	14,725,225,600
ACRES	561,657	6,576	--	14,498	--	582,732
FBM/ACRE	25,757	37,341	--	903	--	25,269
LODGEPOLE PINE:						
FBM	--	--	--	--	--	--
ACRES	--	--	--	--	--	--
FBM/ACRE	--	--	--	--	--	--
RED ALDER:						
FBM	--	--	--	--	0	0
ACRES	--	--	--	--	698	698
FBM/ACRE	--	--	--	--	0	0
BLACK COTTONWOOD:						
FBM	248,050,950	--	8,056,724	0	--	256,107,674
ACRES	6,576	--	3,764	698	--	11,038
FBM/ACRE	37,721	--	2,140	0	--	23,202
ALL TYPES:						
FBM	27,074,313,516	576,347,366	11,399,817	13,086,099	0	27,675,146,284
ACRES	1,106,506	20,134	7,528	26,629	698	1,161,496
FBM/ACRE	24,468	28,626	1,514	491	0	23,827

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

2/ FBM = board-foot measure, International 1/4-inch rule.

TABLE 9--NET VOLUME OF TIMBER, CUBIC FEET, ON TIMBERLAND BY CLASS OF TIMBER AND BY SOFTWOODS AND HARDWOODS. KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

CLASS OF TIMBER	SOFTWOODS	HARDWOODS	ALL SPECIES
		MILLION CUBIC FEET	
SAWTIMBER TREES:			
SAW-LOG PORTION	5,603.49	33.64	5,637.13
UPPER-STEM PORTION	149.10	0.87	149.98
TOTAL	5,752.60	34.51	5,787.11
POLETIMBER TREES	595.90	10.43	606.33
ALL GROWING STOCK	6,348.49	44.94	6,393.43
ROUGH TREES	5.39	--	5.39
ROTTEN TREES	401.91	1.57	403.48
SALVABLE DEAD TREES	137.50	--	137.50
ALL TIMBER	6,893.29	46.51	6,939.80

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 10--NET VOLUME OF SAWTIMBER, INTERNATIONAL 1/4-INCH RULE, ON TIMBERLAND BY SPECIES AND DIAMETER CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT) 11.0-20.9	21.0-30.9	31.0-40.9	41.0-50.9	51.0 AND LARGER	ALL CLASSES
			MILLION BOARD FEET			
SOFTWOODS:						
PACIFIC SILVER FIR	131.34	344.68	182.61	11.65	--	670.28
ALASKA-CEDAR	692.92	471.78	90.26	11.09	11.81	1,277.86
SITKA SPRUCE	717.12	1,900.66	1,864.12	1,367.74	1,073.32	6,922.97
LODGEPOLE PINE	6.71	4.44	--	--	--	11.15
WESTERN REDCEDAR	689.52	780.43	262.89	59.90	7.99	1,800.74
WESTERN HEMLOCK	4,464.63	4,808.25	2,757.20	829.61	117.92	12,977.62
MOUNTAIN HEMLOCK	1,535.02	1,599.64	638.24	55.21	--	3,828.11
TOTAL	8,237.27	9,909.87	5,795.33	2,335.20	1,211.04	27,488.73
HARDWOODS:						
RED ALDER	55.92	--	--	--	--	55.92
BLACK COTTONWOOD	3.00	14.35	79.59	33.56	--	130.51
OTHER HARDWOODS	--	--	--	--	--	--
TOTAL	58.92	14.35	79.59	33.56	--	186.42
ALL SPECIES	8,296.18	9,924.23	5,874.92	2,368.76	1,211.04	27,675.15

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 11--NET VOLUME OF OLD GROWTH, INTERNATIONAL 1/4-INCH RULE, ON TIMBERLAND BY SPECIES AND DIAMETER CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT) 11.0-20.9	21.0-30.9	31.0-40.9	41.0-50.9	51.0 AND LARGER	ALL CLASSES
			MILLION BOARD FEET			
SOFTWOODS:						
PACIFIC SILVER FIR	131.34	344.68	182.61	11.65	--	670.28
ALASKA-CEDAR	692.92	471.78	90.26	11.09	11.81	1,277.86
SITKA SPRUCE	611.15	1,812.27	1,832.70	1,290.63	1,073.32	6,620.08
LODGEPOLE PINE	6.71	4.44	--	--	--	11.15
WESTERN REDCEDAR	689.52	780.43	262.89	59.90	7.99	1,800.74
WESTERN HEMLOCK	4,284.01	4,758.28	2,721.93	829.61	117.92	12,711.77
MOUNTAIN HEMLOCK	1,525.55	1,599.64	638.24	55.21	--	3,818.64
TOTAL	7,941.21	9,771.52	5,728.64	2,258.09	1,211.04	26,910.52
HARDWOODS:						
RED ALDER	39.34	--	--	--	--	39.34
BLACK COTTONWOOD	--	11.31	79.59	33.56	--	124.47
OTHER HARDWOODS	--	--	--	--	--	--
TOTAL	39.34	11.31	79.59	33.56	--	163.80
ALL SPECIES	7,980.54	9,782.84	5,808.23	2,291.65	1,211.04	27,074.32

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 12--NET VOLUME OF YOUNG GROWTH, INTERNATIONAL 1/4-INCH RULE, ON TIMBERLAND BY SPECIES AND DIAMETER CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT) 11.0-20.9	21.0-30.9	31.0-40.9	41.0-50.9	51.0 AND LARGER	ALL CLASSES
	MILLION BOARD FEET					
SOFTWOODS:						
PACIFIC SILVER FIR	--	--	--	--	--	--
ALASKA-CEDAR	--	--	--	--	--	--
SITKA SPRUCE	105.97	88.39	31.42	77.13	--	302.89
LODGEPOLE PINE	--	--	--	--	--	--
WESTERN REDCEDAR	--	--	--	--	--	--
WESTERN HEMLOCK	180.62	49.97	35.27	--	--	265.85
MOUNTAIN HEMLOCK	9.47	--	--	--	--	9.47
TOTAL	296.06	138.35	66.69	77.13	--	578.21
HARDWOODS:						
RED ALDER	16.58	--	--	--	--	16.58
BLACK COTTONWOOD	3.00	3.04	--	--	--	6.04
OTHER HARDWOODS	--	--	--	--	--	--
TOTAL	19.58	3.04	--	--	--	22.62
ALL SPECIES	315.64	141.39	66.69	77.13	--	600.83

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 13--NET VOLUME OF GROWING STOCK, CUBIC FEET, ON TIMBERLAND BY SPECIES AND DIAMETER CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT) 5.0-10.9	11.0-20.9	21.0-30.9	31.0-40.9	41.0-50.9	51.0 AND LARGER	ALL CLASSES
			MILLION CUBIC FEET				
SOFTWOODS:							
PACIFIC SILVER FIR	9.95	31.02	65.47	35.01	2.30	--	143.75
ALASKA-CEDAR	44.76	193.68	111.89	20.67	2.11	2.19	375.30
SITKA SPRUCE	26.69	151.59	339.06	314.79	224.34	181.73	1,238.20
LODGEPOLE PINE	.43	1.76	1.06	--	--	--	3.25
WESTERN REDCEDAR	46.75	209.97	201.40	63.44	13.16	1.62	536.33
WESTERN HEMLOCK	395.80	993.77	999.27	564.12	166.47	23.60	3,143.08
MOUNTAIN HEMLOCK	71.51	353.09	336.52	136.52	10.99	--	908.64
TOTAL	595.89	1,934.88	2,054.66	1,134.55	419.37	209.13	6,348.49
HARDWOODS:							
RED ALDER	5.50	12.58	--	--	--	--	18.09
BLACK COTTONWOOD	4.93	.84	2.37	13.18	5.55	--	26.86
OTHER HARDWOODS	--	--	--	--	--	--	--
TOTAL	10.43	13.42	2.37	13.18	5.55	--	44.94
ALL SPECIES	606.33	1,948.28	2,057.03	1,147.73	424.92	209.13	6,393.44

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 14--NET VOLUME OF OLD GROWTH, CUBIC FEET, ON TIMBERLAND BY SPECIES AND DIAMETER CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)						
	5.0-10.9	11.0-20.9	21.0-30.9	31.0-40.9	41.0-50.9	51.0 AND LARGER	ALL CLASSES
	MILLION CUBIC FEET						
SOFTWOODS:							
PACIFIC SILVER FIR	9.95	31.02	65.47	35.01	2.30	--	143.75
ALASKA-CEDAR	44.76	193.68	111.89	20.67	2.11	2.19	375.30
SITKA SPRUCE	24.54	130.20	322.96	309.22	211.49	181.73	1,180.14
LODGEPOLE PINE	0.43	1.76	1.06	--	--	--	3.25
WESTERN REDCEDAR	46.24	209.97	201.40	63.39	13.16	1.62	535.77
WESTERN HEMLOCK	394.23	954.99	988.94	556.10	166.47	23.60	3,084.33
MOUNTAIN HEMLOCK	69.19	350.69	336.52	136.52	10.99	--	903.92
TOTAL	589.34	1,872.31	2,028.23	1,120.91	406.52	209.13	6,226.45
HARDWOODS:							
RED ALDER	3.88	8.63	--	--	--	--	12.51
BLACK COTTONWOOD	--	--	1.71	13.18	5.55	--	20.44
OTHER HARDWOODS	--	--	--	--	--	--	--
TOTAL	3.88	8.63	1.71	13.18	5.55	--	32.94
ALL SPECIES	593.22	1,880.94	2,029.94	1,134.09	412.07	209.13	6,259.40

Estimates are subject to sampling error.

-- = no data were colected.

1/ Totals may be off because of rounding.

TABLE 15--NET VOLUME OF YOUNG GROWTH, CUBIC FEET, ON TIMBERLAND BY SPECIES AND DIAMETER CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)						
	5.0-10.9	11.0-20.9	21.0-30.9	31.0-40.9	41.0-50.9	51.0 AND LARGER	ALL CLASSES
	MILLION CUBIC FEET						
SOFTWOODS:							
PACIFIC SILVER FIR	--	--	--	--	--	--	--
ALASKA-CEDAR	--	--	--	--	--	--	--
SITKA SPRUCE	2.15	21.39	16.10	5.57	12.85	--	58.06
LODGEPOLE PINE	--	--	--	--	--	--	--
WESTERN REDCEDAR	.51	--	--	.05	--	--	.56
WESTERN HEMLOCK	1.57	38.78	10.33	8.02	--	--	58.75
MOUNTAIN HEMLOCK	2.32	2.40	--	--	--	--	4.72
TOTAL	6.55	62.57	26.43	13.64	12.85	--	122.04
HARDWOODS:							
RED ALDER	1.62	3.95	--	--	--	--	5.58
BLACK COTTONWOOD	4.93	.84	.66	--	--	--	6.42
OTHER HARDWOODS	--	--	--	--	--	--	--
TOTAL	6.55	4.79	.66	--	--	--	12.00
ALL SPECIES	13.11	67.34	27.09	13.64	12.85	--	134.04

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 16--NET ANNUAL GROWTH OF GROWING STOCK, CUBIC FEET, ON TIMBERLAND BY SPECIES AND STAND SIZE CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	SEEDLING AND SAPLING	POLETIMBER	YOUNG-GROWTH SAWTIMBER	OLD-GROWTH SAWTIMBER	ALL CLASSES
			THOUSAND CUBIC FEET		
SOFTWOODS:					
PACIFIC SILVER FIR	--	--	--	69.09	69.09
ALASKA-CEDAR	111.39	--	--	1,366.26	1,477.64
SITKA SPRUCE	22.24	--	436.88	2/-16,620.15	-16,161.02
LODGEPOLE PINE	--	--	--	--	--
WESTERN REDCEDAR	550.21	--	--	-8,455.71	-7,905.51
WESTERN HEMLOCK	72.98	--	61.84	-11,446.98	-11,312.17
MOUNTAIN HEMLOCK	--	--	--	361.27	361.27
TOTAL	756.82	--	498.71	-34,726.23	-33,470.69
HARDWOODS:					
RED ALDER	--	--	2.89	-10.73	-7.84
BLACK COTTONWOOD	--	--	354.30	--	354.30
OTHER HARDWOODS	--	--	--	--	--
TOTAL	--	--	357.19	-10.73	346.49
ALL SPECIES	756.82	--	855.90	-34,736.96	-33,124.23

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

2/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 17--NET ANNUAL GROWTH OF SAWTIMBER, INTERNATIONAL 1/4-INCH RULE, ON TIMBERLAND BY SPECIES AND STAND SIZE CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	SEEDLING AND SAPLING	POLETIMBER	YOUNG-GROWTH SAWTIMBER	OLD-GROWTH SAWTIMBER	ALL CLASSES
			THOUSAND BOARD FEET		
SOFTWOODS:					
PACIFIC SILVER FIR	--	--	--	226.80	226.80
ALASKA-CEDAR	--	--	--	4,334.65	4,334.65
SITKA SPRUCE	--	--	3,217.72	2/-103,108.35	-99,890.62
LODGEPOLE PINE	--	--	--	--	--
WESTERN REDCEDAR	--	--	--	-33,174.95	-33,174.95
WESTERN HEMLOCK	--	--	--	-54,778.64	-54,778.64
MOUNTAIN HEMLOCK	--	--	--	1,252.66	1,252.66
TOTAL	--	--	3,217.72	-185,247.83	-182,030.10
HARDWOODS:					
RED ALDER	--	--	11.95	-502.71	-490.76
BLACK COTTONWOOD	--	--	2,327.54	--	2,327.54
OTHER HARDWOODS	--	--	--	--	--
TOTAL	--	--	2,339.49	-502.71	1,836.78
ALL SPECIES	--	--	5,557.22	-185,750.54	-180,193.32

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

2/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 18--NET ANNUAL GROWTH OF GROWING STOCK, CUBIC FEET, ON TIMBERLAND BY FOREST TYPE AND STAND SIZE CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

FOREST TYPE	SEEDLING AND SAPLING	POLETIMBER	YOUNG-GROWTH SAWTIMBER	OLD-GROWTH SAWTIMBER	ALL CLASSES
			THOUSAND CUBIC FEET		
ALASKA-CEDAR	--	--	--	--	--
HEMLOCK-SPRUCE	--	--	--	1,759.68	1,759.68
SITKA SPRUCE	--	--	530.75	-9,507.03	-8,976.28
WESTERN REDCEDAR	--	--	--	2/-3,051.98	-3,051.98
MOUNTAIN HEMLOCK	--	--	--	--	--
WESTERN HEMLOCK	756.82	--	--	-23,937.63	-23,180.80
LODGEPOLE PINE	--	--	--	--	--
RED ALDER	--	--	--	--	--
BLACK COTTONWOOD	--	--	325.15	--	325.15
ALL TYPES	756.82	--	855.90	-34,736.96	-33,124.24

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

2/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 19--NET ANNUAL GROWTH OF SAWTIMBER, INTERNATIONAL 1/4-INCH RULE, ON TIMBERLAND BY FOREST TYPE AND STAND SIZE CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

FOREST TYPE	SEEDLING AND SAPLING	POLETIMBER	YOUNG-GROWTH SAWTIMBER	OLD-GROWTH SAWTIMBER	ALL CLASSES
			THOUSAND BOARD FEET		
ALASKA-CEDAR	--	--	--	--	--
HEMLOCK-SPRUCE	--	--	--	3,622.31	3,622.31
SITKA SPRUCE	--	--	2,877.91	-69,860.93	-66,983.01
WESTERN REDCEDAR	--	--	--	2/ -9,143.92	-9,143.92
MOUNTAIN HEMLOCK	--	--	--	--	--
WESTERN HEMLOCK	--	--	--	-110,368.00	-110,368.00
LODGEPOLE PINE	--	--	--	--	--
RED ALDER	--	--	--	--	--
BLACK COTTONWOOD	--	--	2,679.30	--	2,679.30
ALL TYPES	--	--	5,557.22	-185,750.54	-180,193.33

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

2/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 20--AVERAGE ANNUAL MORTALITY OF GROWING STOCK, CUBIC FEET, ON TIMBERLAND BY SPECIES AND STAND SIZE CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	SEEDLING AND SAPLING	POLETIMBER	YOUNG-GROWTH SAWTIMBER	OLD-GROWTH SAWTIMBER	ALL CLASSES
			THOUSAND CUBIC FEET		
SOFTWOODS:					
PACIFIC SILVER FIR	--	--	--	--	--
ALASKA-CEDAR	--	--	--	--	--
SITKA SPRUCE	--	--	--	19,516.69	19,516.69
LODGEPOLE PINE	--	--	--	--	--
WESTERN REDCEDAR	--	--	--	1,046.09	1,046.09
WESTERN HEMLOCK	--	--	--	34,499.59	34,499.59
MOUNTAIN HEMLOCK	--	--	--	--	--
TOTAL	--	--	--	55,062.37	55,062.37
HARDWOODS:					
RED ALDER	--	--	--	147.05	147.05
BLACK COTTONWOOD	--	--	349.99	--	349.99
OTHER HARDWOODS	--	--	--	--	--
TOTAL	--	--	349.99	147.05	497.04
ALL SPECIES	--	--	349.99	55,209.42	55,559.41

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 21--AVERAGE ANNUAL MORTALITY OF SAWTIMBER, INTERNATIONAL 1/4-INCH RULE, ON TIMBERLAND BY SPECIES AND STAND SIZE CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

SPECIES	SEEDLING AND SAPLING	POLETIMBER	YOUNG-GROWTH SAWTIMBER	OLD-GROWTH SAWTIMBER	ALL CLASSES
			THOUSAND BOARD FEET		
SOFTWOODS:					
PACIFIC SILVER FIR	--	--	--	--	--
ALASKA-CEDAR	--	--	--	--	--
SITKA SPRUCE	--	--	--	102,543.15	102,543.15
LODGEPOLE PINE	--	--	--	--	--
WESTERN REDCEDAR	--	--	--	3,314.79	3,314.79
WESTERN HEMLOCK	--	--	--	145,501.37	145,501.37
MOUNTAIN HEMLOCK	--	--	--	--	--
TOTAL	--	--	--	251,359.31	251,359.31
HARDWOODS:					
RED ALDER	--	--	--	555.20	555.20
BLACK COTTONWOOD	--	--	1,884.52	--	1,884.52
OTHER HARDWOODS	--	--	--	--	--
TOTAL	--	--	1,884.52	555.20	2,439.72
ALL SPECIES	--	--	1,884.52	251,914.50	253,799.02

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 22--AVERAGE ANNUAL MORTALITY OF GROWING STOCK, CUBIC FEET, ON TIMBERLAND BY FOREST TYPE AND STAND SIZE CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

FOREST TYPE	SEEDLING AND SAPLING	POLETIMBER	YOUNG-GROWTH SAWTIMBER	OLD-GROWTH SAWTIMBER	ALL CLASSES
			THOUSAND CUBIC FEET		
ALASKA-CEDAR	--	--	--	--	--
HEMLOCK-SPRUCE	--	--	--	--	--
SITKA SPRUCE	--	--	349.99	6,244.65	6,594.64
WESTERN REDCEDAR	--	--	--	1,046.09	1,046.09
TRUE FIR	--	--	--	--	--
MOUNTAIN HEMLOCK	--	--	--	--	--
WESTERN HEMLOCK	--	--	--	47,918.68	47,918.68
LODGEPOLE PINE	--	--	--	--	--
RED ALDER	--	--	--	--	--
BLACK COTTONWOOD	--	--	--	--	--
ALL TYPES	--	--	349.99	55,209.42	55,559.41

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 23--AVERAGE ANNUAL MORTALITY OF SAWTIMBER, INTERNATIONAL 1/4-INCH RULE, ON TIMBERLAND BY FOREST TYPE AND STAND SIZE CLASS, KETCHIKAN UNIT, SOUTHEAST COASTAL ALASKA, 1974 1/

FOREST TYPE	SEEDLING AND SAPLING	POLETIMBER	YOUNG-GROWTH SAWTIMBER	OLD-GROWTH SAWTIMBER	ALL CLASSES
			THOUSAND BOARD FEET		
ALASKA-CEDAR	--	--	--	--	--
HEMLOCK-SPRUCE	--	--	--	--	--
SITKA SPRUCE	--	--	1,884.52	29,338.07	31,222.59
WESTERN REDCEDAR	--	--	--	3,314.79	3,314.79
TRUE FIR	--	--	--	--	--
MOUNTAIN HEMLOCK	--	--	--	--	--
WESTERN HEMLOCK	--	--	--	219,261.64	219,261.64
LODGEPOLE PINE	--	--	--	--	--
RED ALDER	--	--	--	--	--
BLACK COTTONWOOD	--	--	--	--	--
ALL TYPES	--	--	1,884.52	251,914.50	253,799.02

Estimates are subject to sampling error.

-- = no data were collected.

1/ Totals may be off because of rounding.

TABLE 24--SUMMARY OF TIMBER HARVEST IN THE KETCHIKAN INVENTORY UNIT, SOUTHEAST COASTAL ALASKA, 1974-80

YEAR OF HARVEST	VOLUME CUT, INTERNATIONAL 1/4-INCH RULE	VOLUME CUT SCRIBNER RULE, BUREAU SCALE 1/	VALUE
	THOUSAND BOARD FEET		*DOLLARS*
1974	25,694.25	21,583.17	$ 55,900.42
1975	14,114.17	11,855.90	283,237.43
1976	26,470.36	22,235.10	531,196.54
1977	13,682.42	11,493.23	274,573.19
1978	21,355.54	17,938.65	428,554.35
1979	22,633.42	19,012.07	454,217.49
1980	23,456.04	19,703.07	1,441,870.37
TOTAL	147,406.20	123,821.19	3,469,549.79

1/ Scribner, Bureau scale volume = International 1/4-inch volume x 0.84. (Bones, James E. Relating products output to inventory estimates on the Tongass Forest. Juneau, AK: Northern Forest Experiment Station; 1963. Office Report.)

Acknowledgments

The USDA Forest Service, Alaska Region, Juneau, Alaska, provided generous assistance to and funding for this inventory.

Inventory prepared by: Alaska Forest Inventory and Analysis work unit, Anchorage, Alaska--O. Keith Hutchison, project leader (now retired).

Photo interpretation by: Richard Funk, George Hudak, and Kerry Martin.

Field measurements by: Douglas A. Cronlund, Richard Funk, George Hudak, Kerry Martin, Russ Beers, Marne Salsburg, Shirley Timpson, Richard Patte.

Timber operability classification by: Douglas A. Cronlund.

Office compilation by: John M. Berger, supervisor (Portland); David Jacobs, reinventory edit and compilations (Portland); Patti Bassett, remeasurement edit and compilations (Portland); Marion Simons (Portland) and Gary Carroll (Anchorage) table and output compilations.

Statistical report prepared by: Willem W.S. van Hees.

Metric Equivalents

1 inch = 2.54 centimeters (cm)
1 foot = 0.3048 meter (m)
1 mile = 1.609 kilometers (km)
1 acre = 0.4047 hectares (ha)
1 cubic foot = 0.0283 cubic meter (m^3)
1 cubic foot per acre = 0.07 cubic meter per hectare (m^3/ha)
20 cubic feet per acre = 1.4 cubic meters per hectare (m^3/ha)
1 square foot basal area per acre = 0.2296 square meter per hectare (m^2/ha)

Literature Cited

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Viereck, Leslie A.; Little, Elbert E., Jr. Alaska trees and shrubs. Agric. Handb. 410. Washington, DC: U.S. Department of Agriculture; 1972. 265 p.

van Hees, Willem W. S. Timber resource statistics for the Ketchikan inventory unit, Alaska, 1974. Resour. Bull. PNW-117. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1984. 33 p.

Statistics on forest area, total gross and net timber volumes, and annual net growth and mortality are presented from the 1974 timber inventory of the Ketchikan unit, Alaska. Timberland area is estimated at 1.16 million acres (470 040 ha), net growing stock volume at 6.39 billion cubic feet (181.04 million m^3), and annual net growth and mortality at -33.12 million cubic feet and 55.56 million cubic feet (-0.94 and 1.57 million m^3), respectively.

Keywords: Forest surveys, timber resources, timber inventory resources (forest), statistics (forest), Alaska (southeast), southeast Alaska.

The **Forest Service** of the U.S. Department of Agriculture is dedicated to the principle of multiple use management of the Nation's forest resources for sustained yields of wood, water, forage, wildlife, and recreation. Through forestry research, cooperation with the States and private forest owners, and management of the National Forests and National Grasslands, it strives — as directed by Congress — to provide increasingly greater service to a growing Nation.

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Department of
Agriculture

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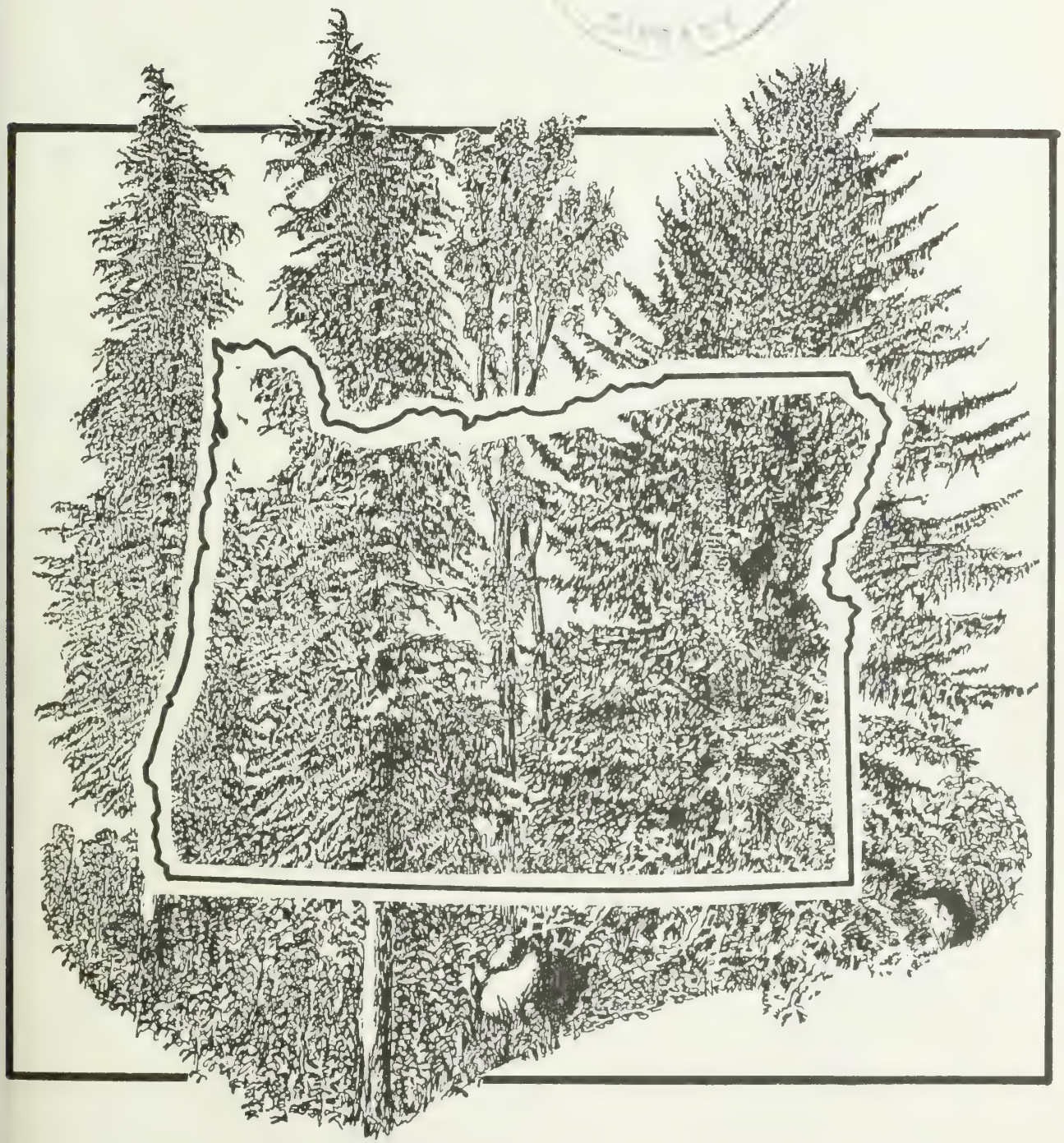
Pacific Northwest
Forest and Range
Experiment Station

Resource Bulletin
PNW-118
October 1984

Oregon's Forest Products Industry: 1982

James O. Howard



Author

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Abstract

Howard, James O. Oregon's forest products industry: 1982. Resour. Bull. PNW-118. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; **1984.** 79 p.

This report presents the findings of a 100-percent survey of the primary forest products industry in Oregon for 1982. The survey included the following sectors: lumber; veneer and plywood; pulp and board; shake and shingle; export; and post, pole, and piling. Tabular presentations include characteristics of the industry, nature and flow of logs consumed, and disposition of mill residues, by sector and for the industry as a whole.

Keywords: Forest products industry, mill surveys, wood utilization, mill residues, Oregon.

Summary

This report presents the findings of a 100-percent survey of the forest products industry in Oregon. Data were collected by questionnaire for each mill that operated during 1982. The survey included the following sectors: lumber; veneer and plywood; pulp and board; shake and shingle; export; and post, pole, and piling.

The survey identified 372 separate operations that used a total of 6 billion board feet of logs in 1982. The lumber and veneer and plywood sectors were the major users, accounting for 57 percent and 34 percent respectively. In addition, the pulp and board industry used about 5.8 million tons of wood fiber, 84 percent of it in the form of mill residues. The industry as a whole generated 9 million tons of residual materials, of which less than 1 percent was not used.

Data from the survey are presented in tabular form by sector and for the industry as a whole.

Preface

This report presents the results of a survey of the primary wood processing industry in Oregon for 1982. This survey identifies the raw material inputs and characteristics of the forest products industry. Data are shown separately for the following industries: lumber; veneer and plywood; pulp and board; shake and shingle; post, pole, and piling; and export.

Similar surveys were produced in 1968, in cooperation with the Oregon Division of Forestry; in 1972, with Oregon State University; and in 1976.

Data for the survey were obtained from a 100-percent mail and telephone canvass of all primary wood processing firms in the State. The survey was conducted in 1983. Industry contacts for the survey were based on lists from previous surveys that were updated using assistance from the Oregon Division of Employment, various directories of the forest products industry, and from information passed on by individual mill owners.

Reliability of the data presented in this report is considered to be high, as the survey was a 100-percent canvass. Information collected from each mill is assumed to be the best available, and whenever possible, the information came from formal records.

In some cases, however, information had to be estimated. Information for indi
ual mills is strictly confidential, and any information that could reveal critical
details of an individual operation has been combined with other data to avoid
disclosure.

Data for log consumption and product output are actual figures reported by th
mills. Subsequent classification of these data (that is, by species, ownership,
origin, degree of manufacturing, and other criteria) is based on percentage di
tributions provided by the mills and may not agree precisely with other publish
figures. Statistics on mill residues are based on average factors applied to pro
output. As such, they may differ from actual volumes for a given mill.

Highlights

Industry Characteristics

Total number of mills in 1982 was 372:

Type of mill	Number
Sawmills	161
Veneer and plywood	101
Pulp	16
Board	20
Shake and shingle	34
Log export	32
Post, pole, and piling	8

Lane County led all others with 57 mills, or 15 percent of the total for the Stat

The 71 largest sawmills had 72 percent of total sawmill capacity.

Only 11 burners operated in the State in 1982.

Wood Consumption

A total of 5,961 million board feet of logs were consumed.

Pulp and board industry consumed 5.7 million tons of mill residue and off-site roundwood chips.

Leading counties in roundwood consumption were:

	Million board feet
Lane	1,133
Douglas	721
Coos	588
Klamath	411

Over 37 percent of logs were from young-growth timber.

Public lands were the source for 46 percent of the log consumption; National Forests provided the largest share—34 percent.

Log consumption by industry:

	Percent
Sawmills	57.2
Veneer and plywood	34.1
Log export	6.7
Pulp and board	1.3
Shake and shingle	.2
Post, pole, and piling	.5

Mill Residues

A total of 9.0 million tons of residues were generated:

Type of mill	Tons (dry weight) of residue
Sawmills	5,308,944
Veneer and plywood	3,671,989
Shake and shingle	10,424

80 percent of the residue was wood, 20 percent was bark.

Over 99 percent of wood and bark residue was used.

67 percent of wood residue went to pulp and board industries; 26 percent was used for fuel.

91 percent of bark was used for fuel; 8 percent was used for miscellaneous purposes.

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70 Other Industries (Tables 61-73)

Introduction

The forest products industry of Oregon continues to be the Nation's number one producer of wood products. In addition to ranking first in production of lumber, plywood, and composition board, the industry in Oregon also produces a considerable volume of shakes and shingles; posts, poles, and pilings; and logs for export.

While important Nationally, the forest products industry has even greater significance to the State's economy. About one-half of all manufacturing-based employment and payrolls are attributable to the industry. The importance of the industry to the State's economy extends well beyond direct employment and payrolls. Yet the viability of the industry has even more significance to many small communities. In many areas the local mill[1] is the only major employer.

This important industry is not static however. Changes in timber supply, technology, and product demand have resulted in a much changed industry from that which existed even 20 years ago. There are fewer mills, greater diversification, a wider range of products, and more efficient and complete use of the timber resource. It is for this reason that up-to-date information on the forest industry is so important. Decision makers and planners, both within and outside the industry, need to know how the industry is changing and how the resource is being used. This report provides much of this information and an in-depth look at Oregon's forest products industry during 1982. Coupled with similar reports for 1968, 1972, and 1976,[2] this information provides a basis for examining significant trends in industry characteristics and timber use.

It is widely known that Oregon's forest products industry has been severely impacted by the depressed National economy during the past few years. Data in this report reflect this situation rather well. By 1983, however, the industry had begun to recover, spurred by improvements in residential and commercial construction. The degree to which this recovery has affected the industry in Oregon is not indicated by this report. It is important to note, though, that during 1983, the year the survey was conducted, 36 mills that were not in business during 1982 either were operating or indicated they might operate in the near future. Whether these mills are currently operating is not known. Also, some mills that operated during 1982 have subsequently closed down. As throughout its history, the forest industry reflects the dynamics of supply and demand.

The forest industry, as the term is used in this study, refers to six primary wood processing industries: sawmills; veneer and plywood; pulp and board; shake and shingle; post, pole, and piling; and export (logs only).

---

[1] See Glossary for definition of terms used in this report.

[2] Manock, Eugene R.; Choate, Grover A.; Gedney, Donald R. Oregon timber industries, 1968, wood consumption and mill characteristics. Salem, OR: State of Oregon Department of Forestry; 1968. 122 p.

Schuldt, John P.; Howard, James O. Oregon forest industries, 1972, wood consumption and mill characteristics. Special Report No. 427. Corvallis, OR: Oregon State University; 1974 113 p.

Howard, James O.; Hiserote, Bruce A. Oregon's forest products industry, 1976. Resour. Bull. PNW-79. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1978. 102 p.

The location of the forest industry in Oregon is closely related to the geographic distribution of the timber resource. As would be expected, a large share of the industry is situated in the heavily timbered area west of the Cascade Range. This is seen in figure 1, which shows that a total of 78 percent of the log consumption occurred in western Oregon.

The State was divided into five resource areas for the study (fig. 2). Designation of these areas reflected both the nature of the timber resource and the historic marketing structure of the industry. This was borne out by the study data, which showed that on an average about 85 percent of the logs processed in a particular resource area were harvested wthin the boundaries of that area.

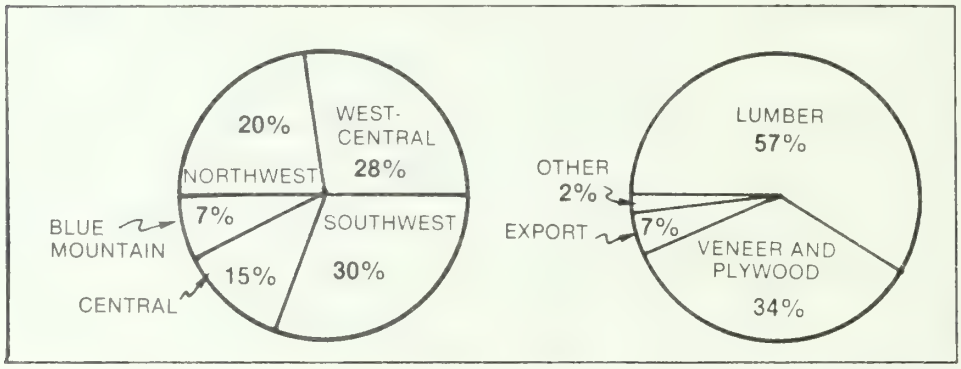


Figure 1.—Distribution of log consumption by resource area and industry, 1982

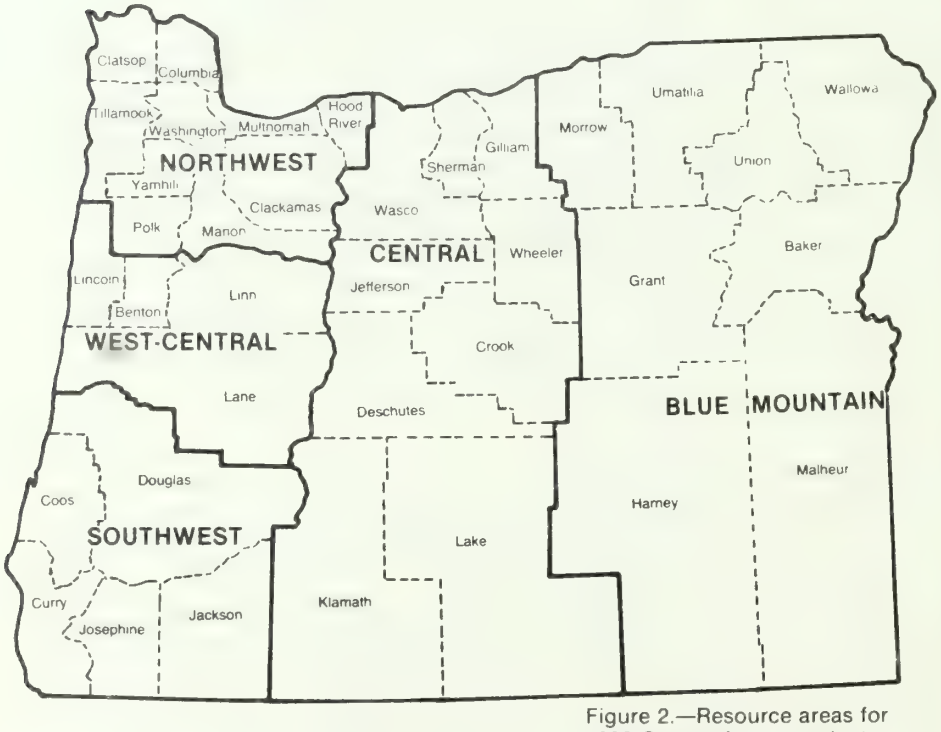


Figure 2.—Resource areas for 1982 Oregon forest products industry survey.

mparison With evious Surveys

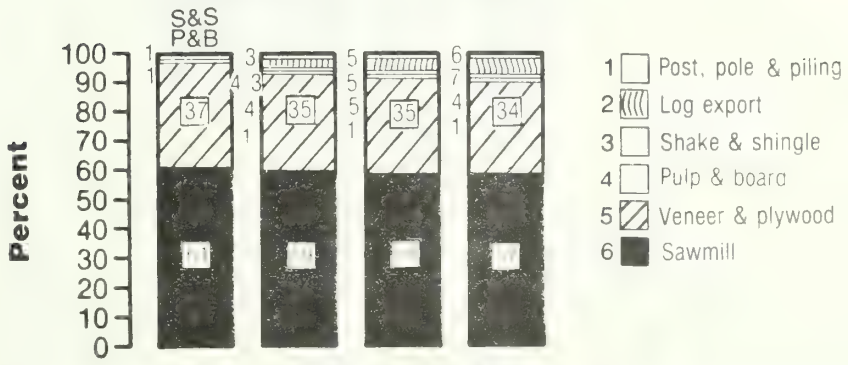
The following graphics indicate some trends in Oregon's forest products industry.[3] These data are taken from this report and from those developed in the 1968, 1972, and 1976 surveys (see footnote 2).

Industry	Number of mills by year			
	1968	1972	1976	1982
Sawmills	300	262	243	161
Veneer and plywood	138	133	132	101
Pulp and board	37	40	40	36
Shake and shingle	48	43	46	34
Post, pole, and piling	NA	10	9	8
Log export	NA	38	28	32
Totals	523	526	498	372

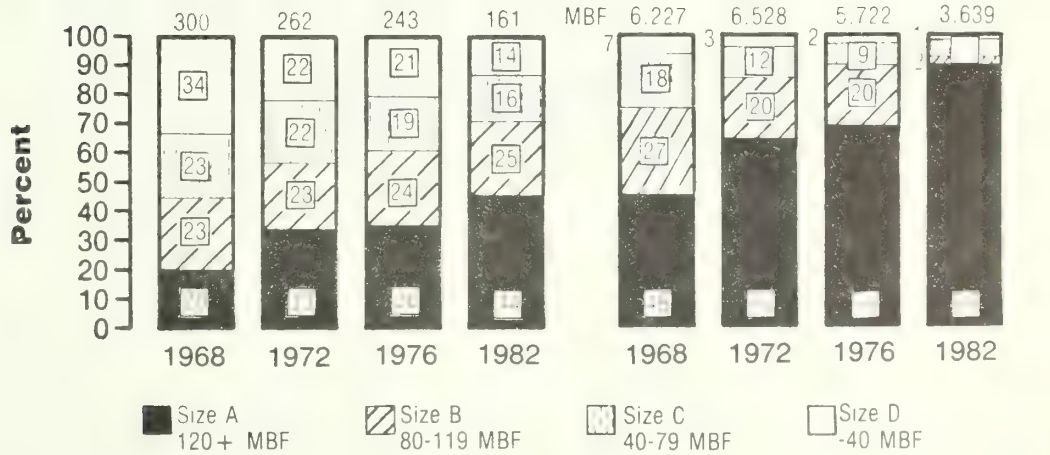
NA = not applicable

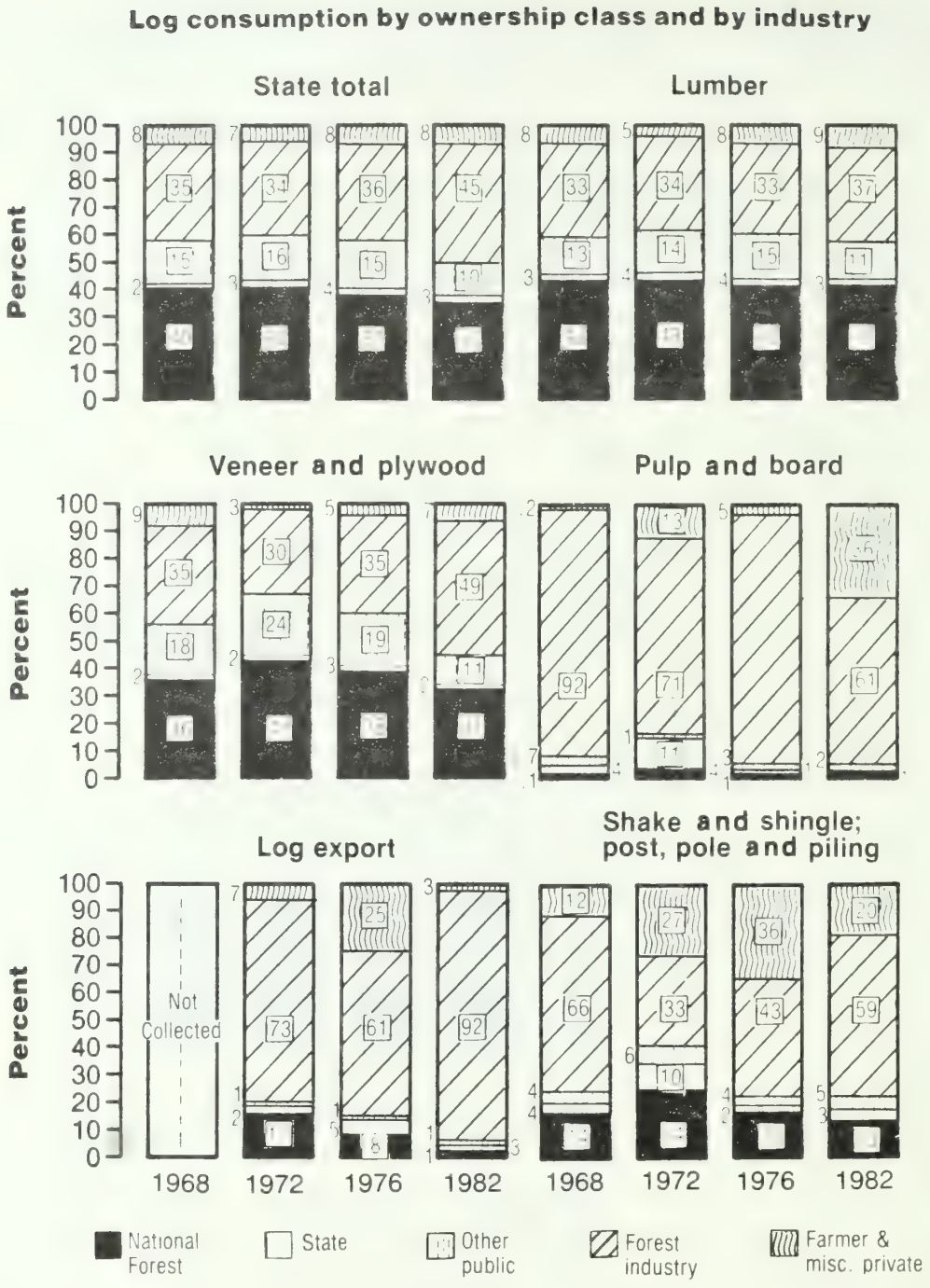
[3] The post, pole, and piling, and log export industries were not included in the 1968 survey, so are not part of the graphic displays for that year.

Log consumption by industry

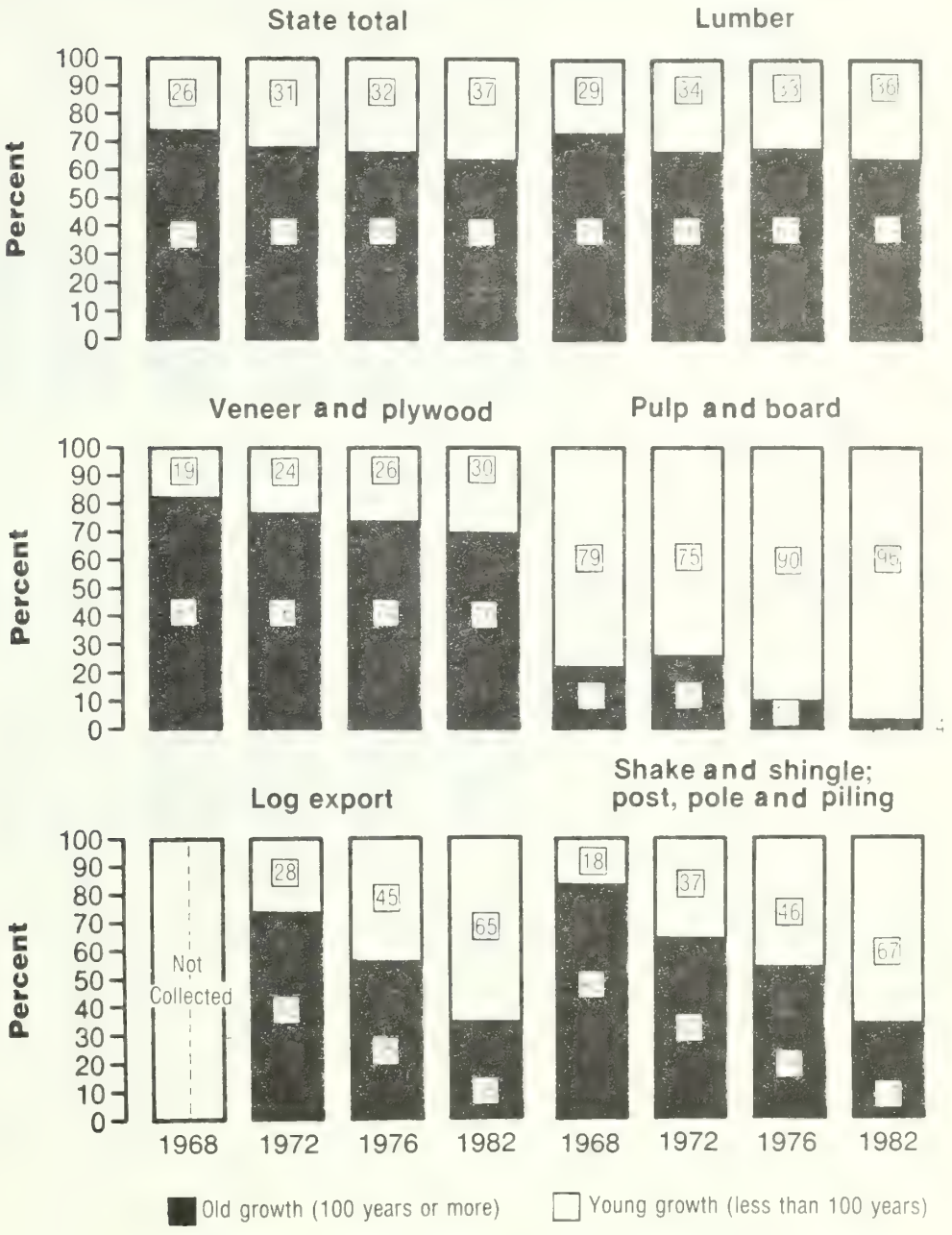


Number of sawmills by size class **Log consumption by size class**

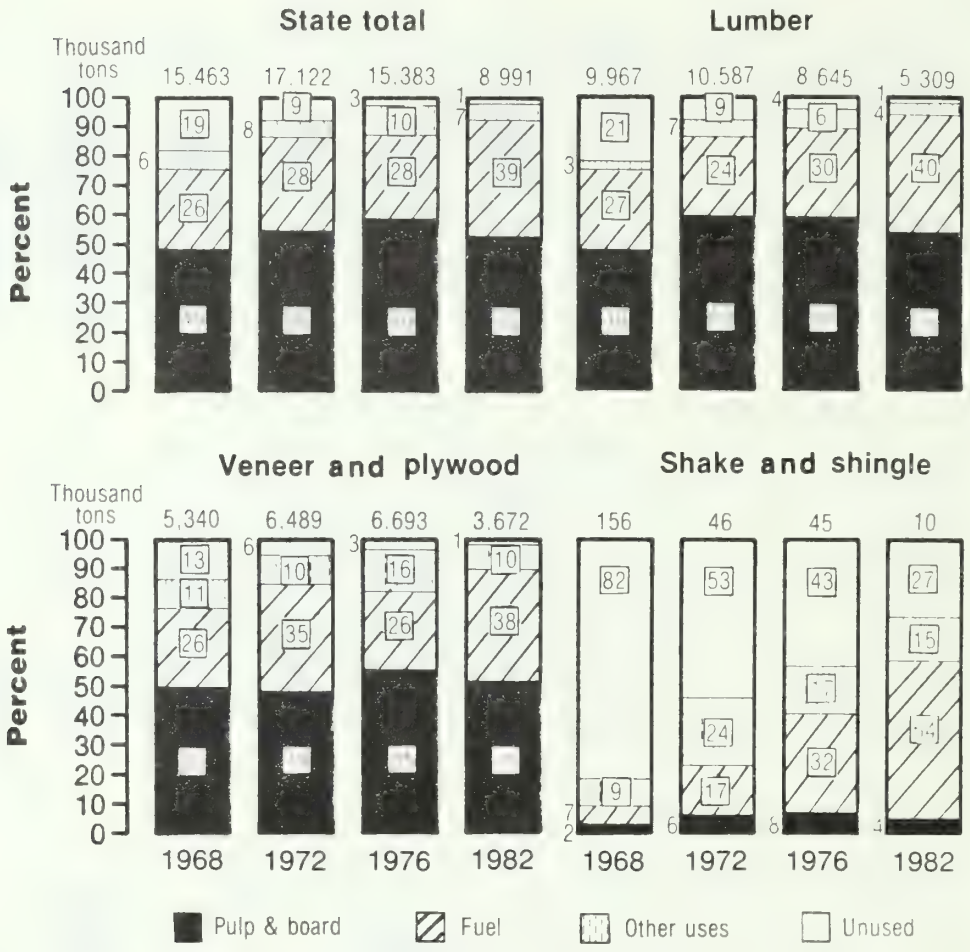



Log consumption by ownership class and by industry
State total
Lumber
Veneer and plywood
Pulp and board
Log export
Shake and shingle; post, pole and piling
Percent
100
90
80
70
60
50
40
30
20
10
0
Not Collected
1968
1972
1976
1982
National Forest
State
Other public
Forest industry
Farmer & misc. private

Log consumption by timber age group and by industry



Production & disposition of wood and bark residue by use & by industry



cknowledgments

We appreciate the help of mill owners and operators who cooperated to provide the data for this report and to the major forest industry associations for their support of this study. Special acknowledgment is made to the following:

State of Washington, Department of Natural Resources, particularly David N. Larsen, Forest Analyst, for assistance in processing the data and technical advice on methodology and questionnaires.

Division of Labor, State of Oregon, for assistance in updating the mill list.

ppendix I
asurement Units

Board foot is the unit of measure used in this report for all wood consumption with the exception of purchased or transferred veneer consumed by plywood mills (square feet, 3/8-inch basis) and mill residues consumed by pulp and board mills (tons, dry weight). Consumption by mills not reported in these units was converted using the following general factors:

1 cord = 500 board feet
1 ton = 500 board feet
10.5 squares = 1,000 board feet
1 lineal foot = 3.8 board feet
1 cubic foot = 6 board feet
200 cubic-foot units = 1 bone-dry ton
1 bone-dry unit = 1.2 bone-dry tons

Board-foot lumber tally is the unit of measure used for lumber production; square feet, 3/8-inch basis for veneer and plywood production; and square (100 square feet) for shake and shingle production.

tric Conversions

1 cubic foot = 0.02832 cubic meter
1 ton = 907.1849 kilograms
1 square foot = 0.0929 square meter

l Residue

In this study no attempt was made to get individual mills to quantify the amount of residue produced. Although many mills might be able to specify amounts of residue sold for high value uses (such as pulp chips) the lower value uses (such as mulch or fuel) are difficult to quantify. The mills therefore were asked only to indicate the percentage distribution of the disposal of their residues. These percentages were then applied to residue estimates derived through use of the following factors:

Softwood sawmill residue.[1] —Average quantity of residue developed from producing 1,000 board feet of lumber:

Type of output	Solid volume[2]		Dry weight	
			Western Oregon	Eastern Oregon
	(Cubic feet)	(Percent)[3]	(Tons)	(Tons)
Wood residues:				
Slabs, edgings, sawmill trim	36	24.5	0.486	0.480
Planer trim	3	2.0	.041	.036
Sawdust	16	10.9	.216	.264
Planer shavings	16	10.9	.216	.192
Total, wood residue	71	48.3	.959	.972
Bark	19	12.9	.258	.228
Lumber	57	38.8	.864	.780
Total, whole log	147	100.0	2.081	1.980

[1] Based on data from Oregon mills compiled by Oregon State University, School of Forestry, in 1967 and adjusted for changes in lumber standards in 1974 by James O. Howard, Resource Analyst, Pacific Northwest Forest and Range Experiment Station.

[2] Equivalent undried solid volume of residue

[3] Percent of log by volume.

Softwood plywood residue.[4] —Average quantity of residue developed in producing the equivalent of 1,000 square feet of 3/8-inch plywood:

Type of output	Solid volume[5]	Dry weight	Proportion of dry weight
	(Cubic feet)	(Tons)	(Percent of whole log)
Wood residues:			
Log trim	3.4	0.048	4.4
Spur trim, roundup, and veneer clip	19.3	.270	24.3
Core	6.3	.088	7.9
Dry trim and layup loss	6.3	.088	7.9
Sander dust	1.6	.022	1.9
Total, wood residue	36.9	.516	46.4
Bark	8.8	.132	11.9
Plywood	34.9	.463	41.7
Total, whole log	80.6	1.111	100.0

[4] All residue factors, except sander dust and bark, from data collected in various mill studies by the Characterization and Utilization of Western Softwoods and Forest Residues Project, Pacific Northwest Forest and Range Experiment Station, and compiled by James O. Howard, Resource Analyst Sander dust and bark factors based on data from Oregon mills compiled in 1967 by Oregon State University, School of Forestry.

[5] Volumes are based on equivalent green volume.

Hardwood sawmill residue.[6] —Average residue developed from producing 1,000 board feet of lumber using a narrow kerf bandsaw:

Type of residue	Dry tons
Coarse	0.60
Shavings	.22
Bark	.34
Sawdust	.23

[6] Based on information furnished by Northwest Hardwoods, Inc., Portland, Oregon

Shingle mill residue.[7] —Average quantity of residue developed in utilizing 1,000 board feet of logs, Scribner scale, or in producing the equivalent volume of 10.5 squares:

Type of residue	Solid volume	Percent	Dry weigh per thousa board fee
	(Cubic feet)		(Tons)
From shingles:			
Coarse	23	13.7	0.22
Fine	78	46.8	.75
Bark	19	11.5	.28
From shakes:			
Coarse	23	13.7	.22
Fine	24	14.5	.23
Bark	19	11.5	.28
From hip and ridge, and other:			
Coarse	23	13.7	.22
Fine	51	30.6	.49
Bark	19	11.5	.28

[7] Based on discussions with the Redcedar Shingle Bureau, Bellevue, Washington

Glossary

Apparent log receipts—The sum of a mill's log consumption and gain or loss in inventory.

Mill—An identifiable operation at one location. For example, a sawmill with a la log and a small log operation would be counted as two mills; also a sulfate and groundwood pulping process at one location would be counted as two mills.

Off-site roundwood chips—Chips from logs that are processed at a chipping mi not as part of a milling operation, then transported to the user.

Old-growth timber—Timber at least 100 years old.

Sound log—Number 3 saw logs and better in grade and having the following minimum specifications: 6-inch diameter, 12-foot length, 50-board foot net scale

Utility log—Logs having the following minimum specifications: 6-inch diameter, 12-foot length, 50 percent or more of gross scale chippable.

Young-growth timber—Timber less than 100 years old.

pendix II

Industries
bles 1-10)

Table 1—Number of mills by type of industry and resource area, Oregon, 1982

RESOURCE AREA	ALL INDUSTRIES	LUMBER	VENEER AND PLYWOOD	PULP AND BOARD 1/	OTHER INDUSTRIES		
					SHAKE AND SHINGLE	EXPORT 2/	POST, POLE, AND PILING
NORTHWEST	103	43	12	10	15	18	5
WEST-CENTRAL	108	40	39	13	13	1	2
SOUTHWEST	101	36	42	6	4	13	--
CENTRAL	33	21	6	4	1	--	1
BLUE MOUNTAIN	27	21	2	3	1	--	--
ALL AREAS	372	161	101	36	34	32	8

1/Each pulping process at a single location is considered an individual mill.

2/Represents the number of identifiable operations involved in the export trade.

Table 2—Wood consumption by mills, by type of material, resource area, and industry, Oregon, 1982

RESOURCE AREA AND INDUSTRY	ROUNDWOOD			OTHER WOOD 1/	RESIDUE 2/
	ALL ROUNDWOOD	SOUND LOGS	UTILITY LOGS		
	- - - THOUSAND BOARD FEET, SCRIBNER LOG RULE - - -				TONS, DRY WEIGHT
NORTHWEST:					
LUMBER	646,319	582,156	64,163	49,093	--
VENEER AND PLYWOOD	249,997	241,673	8,324	--	--
PULP AND BOARD	72,067	2,134	69,933	--	1,580,893
SHAKE AND SHINGLE	2,370	1,692	678	1,507	--
EXPORT	208,792	207,730	1,062	869	--
POST, POLE, AND PILING	22,699	22,699	--	--	--
TOTAL	1,202,244	1,058,084	144,160	51,469	1,580,893
WEST-CENTRAL:					
LUMBER	904,063	762,497	141,566	64,690	--
VENEER AND PLYWOOD	724,999	585,362	139,637	--	--
PULP AND BOARD	--	--	--	--	2,761,531
SHAKE AND SHINGLE	7,981	7,567	414	648	--
EXPORT 3/	--	--	--	--	--
POST, POLE, AND PILING 4/	5,795	5,795	--	--	--
TOTAL	1,642,838	1,361,221	281,617	65,538	2,761,531
SOUTHWEST:					
LUMBER	773,916	697,748	76,168	76,512	--
VENEER AND PLYWOOD	848,075	763,336	84,739	--	--
PULP AND BOARD	4,587	4,587	--	--	793,725
SHAKE AND SHINGLE 5/	1,118	774	344	622	--
EXPORT 3/	189,377	187,247	2,130	--	--
TOTAL	1,817,073	1,653,692	163,381	77,134	793,725
CENTRAL:					
LUMBER	666,406	638,887	27,519	--	--
VENEER AND PLYWOOD 6/	211,885	203,540	8,345	--	--
PULP AND BOARD	--	--	--	--	325,379
SHAKE AND SHINGLE 5/	--	--	--	--	--
POST, POLE, AND PILING 4/	--	--	--	--	--
TOTAL	878,291	842,427	35,864	--	325,379
BLUE MOUNTAIN:					
LUMBER	420,151	389,389	30,762	38,002	--
VENEER AND PLYWOOD 6/	--	--	--	--	--
PULP AND BOARD	--	--	--	--	221,431
SHAKE AND SHINGLE 5/	--	--	-	--	--
TOTAL	420,151	389,389	30,762	38,002	221,431
ALL AREAS:					
LUMBER	3,410,855	3,070,677	340,178	228,497	--
VENEER AND PLYWOOD	2,034,956	1,793,911	241,045	--	--
PULP AND BOARD	76,654	6,721	69,933	--	5,682,959
SHAKE AND SHINGLE	11,469	10,033	1,436	2,777	--
EXPORT	398,169	394,977	3,192	869	--
POST, POLE, AND PILING	28,494	28,494	--	--	--
TOTAL	5,960,597	5,304,613	655,784	232,143	5,682,959

1/Includes peeler cores and cants used by sawmills; blocks, boards, and bolts used by shake and shingle mills; and miscellaneous peeled products used by post, pole, and piling mills.

2/Includes residues from the sawmill, veneer and plywood, and shake and shingle industries, plus chips from roundwood chipping plants.

3/West-Central and Southwest combined to avoid disclosure.

4/West-Central and Central combined to avoid disclosure.

5/Southwest, Central, and Blue Mountain combined to avoid disclosure.

6/Central and Blue Mountain combined to avoid disclosure.

Table 3—Log flows to mills by state, resource area, and industry, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND INDUSTRY	ALL STATES	OREGON	WASHINGTON	CALIFORNIA	IDAHO	OTHER
NORTHWEST:						
LUMBER	646,319	597,683	48,636	--	--	--
VENEER AND PLYWOOD	249,997	211,735	38,166	--	--	96
PULP AND BOARD	72,067	71,943	124	--	--	--
SHAKE AND SHINGLE	2,370	1,895	475	--	--	--
EXPORT	208,792	184,419	24,373	--	--	--
POST, POLE, AND PILING	22,699	20,300	1,945	--	227	227
TOTAL	1,202,244	1,087,975	113,719	--	227	323
WEST-CENTRAL:						
LUMBER	904,063	900,543	3,520	--	--	--
VENEER AND PLYWOOD	724,999	722,896	2,103	--	--	--
SHAKE AND SHINGLE	7,981	7,411	570	--	--	--
EXPORT 1/	--	--	--	--	--	--
POST, POLE, AND PILING 2/	5,795	5,000	795	--	--	--
TOTAL	1,642,838	1,635,850	6,988	--	--	--
SOUTHWEST:						
LUMBER	773,916	727,794	--	46,122	--	--
VENEER AND PLYWOOD	848,075	816,060	--	32,015	--	--
PULP AND BOARD	4,587	4,495	--	92	--	--
SHAKE AND SHINGLE 3/	1,118	1,118	--	--	--	--
EXPORT 1/	189,377	189,377	--	--	--	--
TOTAL	1,817,073	1,738,844	--	78,229	--	--
CENTRAL:						
LUMBER	666,406	636,544	9,500	20,362	--	--
VENEER AND PLYWOOD 4/	211,885	183,491	--	28,394	--	--
SHAKE AND SHINGLE 3/	--	--	--	--	--	--
POST, POLE, AND PILING 2/	--	--	--	--	--	--
TOTAL	878,291	820,035	9,500	48,756	--	--
BLUE MOUNTAIN:						
LUMBER	420,151	420,151	--	--	--	--
VENEER AND PLYWOOD 4/	--	--	--	--	--	--
SHAKE AND SHINGLE 3/	--	--	--	--	--	--
TOTAL	420,151	420,151	--	--	--	--
ALL AREAS:						
LUMBER	3,410,855	3,282,715	61,656	66,484	--	--
VENEER AND PLYWOOD	2,034,956	1,934,182	40,269	60,409	--	96
PULP AND BOARD	76,654	76,438	124	92	--	--
SHAKE AND SHINGLE	11,469	10,424	1,045	--	--	--
EXPORT	398,169	373,796	24,373	--	--	--
POST, POLE, AND PILING	28,494	25,300	2,740	--	227	227
TOTAL	5,960,597	5,702,855	130,207	126,985	227	323

1/West-Central and Southwest combined to avoid disclosure.

2/West-Central and Central combined to avoid disclosure.

3/Southwest, Central, and Blue Mountain combined to avoid disclosure.

4/Central and Blue Mountain combined to avoid disclosure.

Table 4—Log flows to mills by county and out-of-state origins, resource area, and county of use, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	TOTALS	NORTHWEST									
		CLACKAMAS	CLATSOP	COLUMBIA	HOOD RIVER	MARION	MULTNOMAH	POLK	TILLAMOOK	WASHINGTON	YAMHILL
NORTHWEST:											
CLACKAMAS	239,416	125,837	8,366	8,890	2,427	7,439	3,806	--	33,466	659	--
CLATSOP	167,253	--	86,075	16,753	--	--	--	--	26,701	--	--
COLUMBIA	96,490	33,082	13,728	22,610	--	--	--	--	815	1,197	--
HOOD RIVER AND MULTNOMAH 1/	116,827	26,703	4,205	6,694	20,756	1,366	17,199	1,224	1,374	2,834	600
MARION	96,320	6,550	--	--	--	37,548	--	1,090	--	--	570
POLK	178,847	1,080	--	--	--	2,262	--	54,343	13,010	225	11,071
TILLAMOOK	43,834	--	2,404	15	--	--	--	385	39,770	--	445
WASHINGTON	84,546	700	727	1,181	--	--	--	3,500	14,727	39,308	17,500
YAMHILL	178,711	900	15,557	5,030	--	2,913	--	28,945	39,429	6,113	23,892
TOTAL	1,202,244	194,852	131,062	61,173	23,183	51,528	21,005	89,487	169,292	50,336	54,078
WEST-CENTRAL:											
BENTON	79,326	--	--	--	--	--	--	178	--	--	178
LANE 2/	1,132,880	500	-	--	440	--	--	1,977	1,497	--	1,977
LINCOLN	69,449	--	24	195	--	--	--	5,843	1,978	195	--
LINN	361,183	6,200	--	--	--	46,730	4,800	12,097	--	--	12,060
TOTAL	1,642,838	6,700	24	195	440	46,730	4,800	20,095	3,475	195	14,215
SOUTHWEST:											
COOS 3/	586,174	--	7,135	1,081	--	--	--	130	1,914	--	--
CURRY	71,588	--	--	--	--	--	--	--	--	--	--
DOUGLAS	721,108	--	--	--	--	--	--	--	--	--	--
JACKSON	335,662	--	--	545	--	--	--	--	--	--	--
JOSEPHINE	100,541	--	--	--	--	--	--	--	--	--	--
TOTAL	1,817,073	--	7,135	1,626	--	--	--	130	1,914	--	--
CENTRAL:											
CROOK	77,403	--	--	--	--	--	--	--	--	--	--
DESCHUTES AND JEFFERSON 1/ 4/	273,817	--	--	--	--	--	--	--	--	--	--
KLAMATH	410,763	--	--	--	--	--	--	--	--	--	--
LAKE	62,372	--	--	--	--	--	--	--	--	--	--
WASCO	53,936	4,456	--	--	4,218	--	--	--	--	--	--
TOTAL	878,291	4,456	--	--	4,218	--	--	--	--	--	--
BLUE MOUNTAIN:											
BAKER	38,701	--	--	--	--	--	--	--	--	--	--
GRANT AND HARNEY 1/	117,400	--	--	--	--	--	--	--	--	--	--
MORROW AND UMATILLA 1/	110,475	--	--	--	--	--	--	--	--	--	--
UNION	90,406	--	--	--	--	--	--	--	--	--	--
WALLOWA	63,169	--	--	--	--	--	--	--	--	--	--
TOTAL	420,151	--	--	--	--	--	--	--	--	--	--
ALL AREAS	5,960,597	206,008	138,221	62,994	27,841	98,258	25,805	109,712	174,681	50,531	68,293

See footnotes at end of table.

e 4—Log flows to mills by county and out-of-state origins, resource area, and county of use, Oregon, (continued)

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

AREA AND	WEST-CENTRAL				SOUTHWEST					CENTRAL			
	BENTON	LANE	LINCOLN	LINN	COOS	CURRY	DOUGLAS	JACKSON	JOSEPHINE	CROOK	DESCHUTES	JEFFERSON	KLAMATH
T:													
					--		6,750	--	--	--	-	-	
P		--	-	-	-	--	--	--	-	--	--	--	--
		--	--	-	-		-	--	--	--	--	--	--
			--		-	--	-	--	--	-	--	-	--
			--		-	-	--	--	--	--	--	-	-
					-	--	-	--	--	--	--	-	
	-	--		--	-	-	-	--	--	--			
L	-	--		--	-	-	-	--	--	--	-		--
A					--			--		--	1,587	--	
				1,717		-	--		--	--	-	--	--
						-		1,125	--	--		-	--
					-	-	-	--	--	--	--	-	--
	23,605	29,449			--	--		--	--	--	-	--	--
								1,125	--	--		-	--
						24,420	202,369	--	374	--		--	--
		-		-	7,384			--		--	--	--	
	--			-						-	987	1,750	7,725
	--	--	--	--	600		22,67	170,50	34,203	-	547	--	42,191
		--	--	-	-	--	6,313	43,562	41,890	--	1,550	--	-
				--	388,217	93,197	804,4	229,908	100,956	--		1,750	49,916
	--	--	--	--	-	--	--	--	--	48,821		--	--
	-	--	-	--	--	-	--	--	--	23,000	123,410	40,290	5,790
	--		--	--	--	--		11,715	--	--	--	--	228,612
	--	-	--	--	--	--	--	--	--	--	--	--	
					--	--	--	--	--	--	--	--	864
	--		--	--	--	--	316	11,715	--	71,821	130,310	40,290	235,286	
TAIN													
	--	--	--	-	--	--	--	--	--	--		--	--
	--	--	--	--	--	--	--	--	--	13,180	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--	--
L	--	--	--	-	--	--	--	--	--	13,180	--	--	--
	79,388	992,644	194,527	392,817	411,763	93,197	932,331	242,748	100,956	85,001	139,215	42,040	285,8

, at end of table

Table 4—Log flows to mills by county and out-of-state origins, resource area, and county of use, Oregon, 1982 (continued)

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	CENTRAL (CONTINUED)			BLUE MOUNTAIN							OUT-OF-STATE
	LAKE	WASCO	WHEELER	BAKER	GRANT	HARNEY	MORROW	UMATILLA	UNION	WALLOWA	
NORTHWEST:											
[illegible]	--	[illegible]	--	--	--	--	--	--	--	--	24,356
CLATSOP	--	[illegible]	--	--	--	--	--	--	--	--	37,724
[illegible]	--	[illegible]	--	--	--	--	--	--	--	--	25,058
MOOE RIVER AND [illegible] 1/	--	1,[illegible]	--	--	--	--	--	--	--	--	[illegible],709
MARION	--	--	--	--	--	--	--	--	--	--	[illegible]
POLK	--	[illegible]	--	--	--	--	--	--	--	--	--
TILLAMOOK	--	[illegible]	--	--	--	--	--	--	--	--	[illegible]
[illegible]	--	[illegible]	--	--	--	--	--	--	--	--	1,135
YAMHILL	--	14,[illegible]	--	--	--	--	--	--	--	--	187
TOTAL	--	[illegible]	--	--	--	--	--	--	--	--	114,269
WEST-CENTRAL:											
[illegible]	--	[illegible]	--	--	--	--	--	--	--	--	--
LANE 2/	--	[illegible]	--	--	--	--	--	--	--	--	4,885
[illegible]	--	[illegible]	--	--	--	--	--	--	--	--	--
LINN	--	--	--	--	--	--	--	--	--	--	2,103
TOTAL	--	[illegible]	--	--	--	--	--	--	--	--	6,988
SOUTHWEST:											
[illegible]	--	[illegible]	--	--	--	--	--	[illegible]	--	--	[illegible]
CURRY	--	--	--	--	--	--	--	--	--	--	--
[illegible]	--	[illegible]	--	--	--	--	--	--	--	--	11,[illegible]
JACKSON	--	[illegible]	--	--	--	--	--	--	--	--	[illegible],941
[illegible]	--	[illegible]	--	--	--	--	--	--	--	--	[illegible]
TOTAL	--	--	--	--	--	--	--	[illegible]	--	--	78,229
CENTRAL:											
[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	--	[illegible]	2,587	--	[illegible]
DESCHUTES AND JEFFERSON 3/ 4/	40	[illegible]	--	[illegible]	775	[illegible]	--	4,633	26,889	[illegible]	--
KLAMATH	115,414	--	--	--	--	--	--	--	--	--	48,756
LAKE	62,372	--	--	--	[illegible]	--	--	--	--	--	--
WASCO	--	36,861	--	--	--	--	--	--	--	--	[illegible]
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	6,259	[illegible]	--	4,633	29,476	6,950	58,256
BLUE MOUNTAIN:											
BAKER	--	--	--	31,738	6,576	--	--	--	387	--	[illegible]
GRANT AND HARNEY 1/	--	--	--	--	66,310	37,910	--	--	--	--	--
MORROW AND UMATILLA 1/	--	--	4,[illegible]	--	18,251	--	31,774	43,698	4,603	7,953	--
UNION	--	--	--	21,500	2,574	--	--	7,158	51,671	7,503	--
WALLOWA	--	--	--	--	--	--	--	320	4,982	57,867	--
TOTAL	[illegible]	--	4,196	53,238	93,711	37,910	31,774	51,176	61,643	73,323	--
ALL AREAS	[illegible],826	[illegible],054	4,671	[illegible]	99,970	49,223	[illegible],774	55,937	[illegible],119	80,273	257,742

1/Combined to avoid disclosure.

2/Lane County includes one post, pole, and piling operation from Wasco County, combined to avoid disclosure.

3/Coos County includes one shake and shingle mill each from Deschutes and Umatilla Counties, and one export operation from Lincoln County, combined to avoid disclosure.

4/Deschutes and Jefferson Counties include one veneer and plywood mill each from Baker and Union Counties, combined to avoid disclosure.

le 5—Log flows to mills from National Forests by resource area and county of use, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

CE AREA AND OF USE	ALL FORESTS	DESCHUTES	FREMONT	MALHEUR	MOUNT HOOD	OCHOCO	ROGUE RIVER	SISKIYOU	SIUSLAW	UMATILLA	UMPQUA	WALLOWA-WHITMAN	WILLAMETTE	WINEMA	OUT-OF-STATE FORESTS
EST:															
KAMA	114,463	--	--	--	95,384	--	--	--	--	--	--	--	576	--	18,503
SOP	21,422	--	--	--	-	-	--	--	--	--	--	-	-	-	21,422
MBIA	22,611	--	--	--	6,783	-	--	--	-	-	--	--	-	--	15,828
RIVER AND															
TNOMAH 1/	28,111	-	--	--	16,599	-	--	--	--	-	--	--	-	-	11,512
UN	61,940	--	--	--	55	--	--	--	110	--	--	--	61,375	--	--
	37,217	-	--	--	1,056	--	--	--	35,279	-	--	--	880	--	--
AMOOX	4,130	--	--	--	--	--	--	--	4,130	--	--	--	--	--	-
INGTON	14,000	--	-	-	--	--	--	--	14,000	--	--	-	--	--	-
ILL	47,415	--	--	--	300	--	-	--	46,791	--	--	--	324	--	--
TAL	355,303	--	--	-	120,177	-	--	--	100,310	--	--	-	63,155	--	67,265
RKTNG															
UN	35,804	--	--	-	--	--	-	--	33,963	--	--	--	1,841	-	--
	498,550	--	--	--	176	--	--	2,914	71,084	--	36,784	--	284,696	-	2,396
LIN	17,636	--	-	--	-	--	--	--	17,636	--	--	--	-	--	-
	85,361	--	--	--	7,360		--	--	34	--	963	-	76,790	-	214
TAL	537,351		-		7,536	--	-	2,914	73,766	--	37,747	--	362,262	-	2,606
L:															
	41,248	-		-	-	-	-	13,277	6,193	128	1,536	--	20	--	--
Y	26,345	-	--	-	--	--	--	17,845	8,500	--	--	--	-	-	-
CE	100,781	-	-	--	-	-	6,347	31,140	1,971	--	136,978	-	3,809	-	--
UN	124,415	-	-	1,455	-	-	61,288	10,673	--	-	16,265	-	--	17,584	16,390
mine	81,941	-	-	-	1,860	-	29,364	28,282	--	--	2,110	-	-	-	--
TAL	433,794	47	--	3,455	-	1,860	98,924	121,218	16,664	128	156,643	--	3,829	17,584	13,390
L															
	54,747	1,047	--	3,455	-	46,245	--	--	-	--	--	2,204	-	--	-
TE AND															
ERSON	128,947	106,445	--	-	-	7,605	--	-	--	1,223	--	11,674	--	--	--
AM	154,745	28,008	39,667	-	-	-	1,206	--	-	--	--	-	-	46,863	37,201
	61,397	--	61,397	--	--	--	--	--	--	--	--	--	--	-	--
	41,371	--	913	-	40,458	--	-	--	--	--	--	--	--	--	--
TAL	440,460	134,500	101,977	3,455	40,458	54,508	1,206	-	--	1,223	-	13,878	-	46,863	37,201
CONTAIN															
	37,521	-	-	-	-	-	-	-	--	-	-	37,521	--	--	--
T AND MARKET 1	135,660	-	-	80,140	-	13,180	--	-	--	7,120	--	5,160	--	--	--
M AND															
TILLA 1	36,957	--	-	--	--	--	--	--	--	26,305	--	10,652	-	--	--
N	25,384	-	-	--	--	--	--	-	-	4,865	--	20,519	--	--	--
WA	37,713	--	--	--	--	-	--	--	--	1,152	-	36,561	--	--	--
STA	243,175	--	--	80,140	--	13,180	--	-	--	39,442	-	110,413	-	--	--
AS	1,811,504	141,595	101,977	86,960	168,173	69,548	100,130	124,132	240,240	40,793	194,390	124,291	430,318	66,247	120,462

nned to avoid disclosure.

County includes one post, pole, and piling operation from Wasco County, combined to avoid disclosure.

County includes one shake and shingle mill each from Deschutes and Umatilla Counties, and one export operation from Lincoln County, combined id disclosure.

nutes and Jefferson Counties include one veneer and plywood mill each from Baker and Union Counties, combined to avoid disclosure.

Table 6—Log flows to mills from National Forests by resource area and industry, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND INDUSTRY	ALL FORESTS	DESCHUTES	FREMONT	MALHEUR	MOUNT HOOD	OCHOCO	ROGUE RIVER	SISKIYOU	SIUSLAW	UMATILLA	UMPQUA	WALLOWA-WHITMAN	WILLAMETTE	WINEMA
NORTHWEST:														
LUMBER	245,975	--	--	--	110,790	--	--	--	92,667	--	--	--	12,792	--
VENEER AND PLYWOOD	101,781	--	--	--	6,783	--	--	--	7,398	--	--	--	50,363	--
PULP AND BOARD	313	--	--	--	300	--	--	--	--	--	--	--	--	--
SHAKE AND SHINGLE	1,145	--	--	--	820	--	--	--	245	--	--	--	--	--
EXPORT	1,695	--	--	--	1,486	--	--	--	--	--	--	--	--	--
TOTAL	350,909	--	--	--	120,179	--	--	--	100,310	--	--	--	63,155	--
WEST-CENTRAL:														
LUMBER	288,618	--	--	--	5,320	--	--	1,114	67,265	--	28,845	--	181,722	--
VENEER AND PLYWOOD	246,864	--	--	--	1,800	--	--	1,800	55,055	--	8,902	--	179,097	--
SHAKE AND SHINGLE	3,297	--	--	--	240	--	--	--	946	--	--	--	2,111	--
EXPORT 1/	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING 2/	552	--	--	--	176	--	--	--	--	--	-	--	352	--
TOTAL	537,351	--	--	--	7,536	--	--	2,914	123,266	-	37,747	--	363,282	--
SOUTHWEST:														
LUMBER	214,125	--	--	3,455	-	1,860	56,204	66,354	669	--	73,699	--	1,154	9,853
VENEER AND PLYWOOD	209,330	--	-	--	--	--	42,720	50,434	15,476	--	82,934	--	2,722	7,731
PULP AND BOARD	21	--	--	-	--	--	--	321	--	--	--	--	--	-
SHAKE AND SHINGLE 3/	226	47	--	--	--	--	--	36	--	126	10	--	5	--
EXPORT 1/	4,093	--	--	--	--	--	--	4,073	519	--	--	--	--	--
TOTAL	433,794	47	--	3,455	--	1,860	98,924	121,218	16,664	128	156,643	--	3,881	17,584
CENTRAL:														
LUMBER	366,529	126,183	98,358	3,366	40,456	46,903	--	--	--	--	-	2,204	--	36,477
VENEER AND PLYWOOD 4/	79,821	17,745	3,619	--	--	7,605	1,206	--	--	1,223	--	11,674	--	12,191
SHAKE AND SHINGLE 3/	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING 2/	--	--	--	--	--	--	--	--	--	--	--	-	--	--
TOTAL	446,350	143,928	101,977	3,366	40,458	54,508	1,206	--	--	1,223	--	13,878	--	48,668
BLUE MOUNTAIN:														
LUMBER	243,175	--	--	80,140	--	13,180	--	-	--	39,442	--	110,413	--	-
VENEER AND PLYWOOD 4/	--	--	--	--	--	--	--	--	--	--	--	--	--	-
SHAKE AND SHINGLE 3/	-	--	--	--	--	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING 2/	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	243,175	--	--	80,140	--	13,180	--	--	--	39,442	--	110,413	--	--
ALL AREAS:														
LUMBER	1,361,622	126,183	98,358	86,903	156,568	61,943	56,204	67,468	160,601	39,442	102,544	112,617	195,668	46,325
VENEER AND PLYWOOD	637,796	17,745	3,619	--	8,583	7,605	43,926	52,234	77,929	1,223	91,836	11,674	232,182	19,922
PULP AND BOARD	634	--	--	--	300	--	--	321	--	--	--	--	--	--
SHAKE AND SHINGLE	4,668	47	--	--	1,060	--	--	36	1,191	126	10	--	2,116	--
EXPORT	6,287	--	--	--	1,486	--	--	4,073	519	--	--	--	--	--
POST, POLE, PILING	552	--	--	--	176	--	--	--	--	--	--	--	352	--
TOTAL	2,011,579	143,975	101,977	86,903	168,173	69,548	100,130	124,132	240,240	40,793	194,390	124,291	430,318	66,247

1/West-Central and Southwest combined to avoid disclosure.

2/West-Central, Central, and Blue Mountain combined to avoid disclosure.

3/Southwest, Central, and Blue Mountain combined to avoid disclosure.

4/Central and Blue Mountain combined to avoid disclosure.

le 7—Dependency (%) of mills on logs by ownership class, resource area, and ustry, Oregon, 1982

(NUMBER OF MILLS)

RCE AREA IDUSTRY	NATIONAL FOREST				STATE				BUREAU OF LAND MANAGEMENT			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
IEST:												
BER	17	8	10	6	17	19	5	—	22	15	3	1
ER AND PLYWOOD	4	3	1	3	7	4	--	--	7	4	--	--
AND BOARD	1	4	--	--	3	2	--	—	5	--	—	--
E AND SHINGLE	6	--	2	2	8	1	1	--	9	1	—	--
RT	15	2	1	--	15	1	--	2	17	1	--	—
, POLE, AND PILING	5	--	--	--	2	2	1	--	5	—	--	--
TOTAL	48	17	14	11	52	29	7	2	65	21	3	1
ENTRAL:												
BER	5	14	9	10	19	19	--	--	11	24	2	1
ER AND PLYWOOD	6	12	9	5	18	14	--	--	11	17	4	--
E AND SHINGLE	3	3	4	3	13	—	—	--	9	4	--	—
RT	--	1	--	--	1	--	--	--	1	--	--	--
, POLE, AND PILING	1	1	--	--	2	--	--	--	1	1	--	--
TOTAL	15	31	22	18	53	33	--	--	33	46	6	1
EST:												
BER	9	11	10	6	31	5	--	--	8	23	3	2
ER AND PLYWOOD	4	14	9	4	22	9	--	--	8	18	5	--
AND BOARD	--	1	--	--	1	--	--	--	1	--	--	--
E AND SHINGLE	--	2	--	1	3	--	--	--	1	1	--	1
RT	11	1	--	1	12	1	--	—	11	2	--	--
TOTAL	24	29	19	12	69	15	--	--	29	44	8	3
L:												
BER	2	1	4	14	19	2	--	--	19	2	--	--
ER AND PLYWOOD	2	--	2	2	5	1	--	--	5	1	--	--
E AND SHINGLE	--	1	--	--	1	--	--	--	1	--	--	--
, POLE, AND PILING	--	1	--	--	1	--	--	--	1	--	--	--
TOTAL	4	3	6	16	26	3	--	--	26	3	--	--
OUNTAIN:												
BER	2	4	4	11	21	--	--	--	20	1	--	--
ER AND PLYWOOD	--	1	--	1	2	--	--	--	1	1	--	--
E AND SHINGLE	--	--	--	1	1	--	--	--	1	—	--	--
TOTAL	2	5	4	13	24	--	--	--	22	2	--	--
REAS:												
BER	35	38	37	47	107	45	5	—	80	65	8	4
ER AND PLYWOOD	16	30	21	15	54	28	—	—	32	41	9	--
AND BOARD	1	5	--	--	4	2	--	--	6	--	—	--
E AND SHINGLE	9	6	6	7	26	1	1	--	21	6	--	1
RT	26	4	1	1	28	2	—	2	29	3	--	--
, POLE, AND PILING	6	2	--	--	5	2	1	--	7	1	--	--
TOTAL	93	85	65	70	224	80	7	2	175	116	17	5

Table 7—Dependency (%) of mills on logs by ownership class, resource area, and industry, Oregon, 1982 (continued)

(NUMBER OF MILLS)

RESOURCE AREA AND INDUSTRY	OTHER PUBLIC				FOREST INDUSTRY								OTHER PRIVATE			
					OWN WOOD SUPPLY				OTHER WOOD SUPPLY							
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	6
NORTHWEST:																
LUMBER	39	2	--	--	25	8	2	6	21	11	5	4	13	23	2	
VENEER AND PLYWOOD	11	--	--	--	5	1	3	2	5	4	1	1	6	4	—	
PULP AND BOARD	3	2	--	--	—	2	2	1	3	2	--	--	1	2	--	
SHAKE AND SHINGLE	9	--	1	--	9	1	—	--	5	1	3	1	5	1	2	
EXPORT	16	2	--	--	17	--	--	1	3	2	--	13	13	4	--	
POST, POLE, AND PILING	5	--	--	--	3	--	1	1	2	1	1	1	3	--	1	
TOTAL	83	6	1	--	59	12	8	11	39	21	10	20	41	34	5	
WEST-CENTRAL:																
LUMBER	38	--	--	--	16	17	2	3	14	21	1	2	12	23	2	
VENEER AND PLYWOOD	32	--	--	--	13	11	1	7	17	14	1	--	16	13	2	
SHAKE AND SHINGLE	13	--	--	--	13	--	--	--	3	3	4	3	7	4	1	
EXPORT	1	--	--	--	1	--	--	--	--	--	1	--	--	--	1	
POST, POLE, AND PILING	2	--	--	--	--	2	--	--	--	1	1	--	--	1	--	
TOTAL	86	--	--	--	43	30	3	10	34	39	8	5	35	41	6	
SOUTHWEST:																
LUMBER	32	4	--	--	22	7	1	6	15	17	3	1	18	13	1	
VENEER AND PLYWOOD	26	5	--	--	11	9	3	8	12	16	1	2	15	14	2	
PULP AND BOARD	1	--	--	--	--	--	--	1	1	--	--	--	--	1	--	
SHAKE AND SHINGLE	3	--	--	--	3	--	--	--	1	1	1	--	1	2	--	
EXPORT	13	--	--	--	12	--	--	1	2	--	--	11	13	--	--	
TOTAL	75	9	--	--	48	16	4	16	31	34	5	14	47	30	3	
CENTRAL:																
LUMBER	15	4	1	1	14	6	--	1	16	5	--	--	16	4	--	
VENEER AND PLYWOOD	4	1	--	1	4	1	--	1	4	1	1	--	2	4	--	
SHAKE AND SHINGLE	1	--	--	--	1	--	--	--	--	--	--	1	1	--	--	
POST, POLE, AND PILING	--	1	--	--	--	1	--	--	--	--	1	--	--	1	--	
TOTAL	20	6	1	2	19	8	--	2	20	6	2	1	19	9	--	
BLUE MOUNTAIN:																
LUMBER	21	--	--	--	16	2	--	3	14	5	1	1	3	15	2	
VENEER AND PLYWOOD	2	--	--	--	1	--	--	1	1	1	--	--	--	2	--	
SHAKE AND SHINGLE	1	--	--	--	1	--	--	--	1	--	--	--	1	--	--	
TOTAL	24	--	--	--	18	2	--	4	16	6	1	1	4	17	2	
ALL AREAS:																
LUMBER	145	10	1	1	93	40	5	19	80	59	10	8	62	78	7	
VENEER AND PLYWOOD	75	6	--	1	34	22	7	19	39	36	4	3	39	37	4	
PULP AND BOARD	4	2	--	--	--	2	2	2	4	2	--	--	1	3	--	
SHAKE AND SHINGLE	27	--	1	--	27	1	--	--	10	5	8	5	15	7	3	
EXPORT	30	2	--	--	30	--	--	2	5	2	1	24	26	4	1	
POST, POLE, AND PILING	7	1	--	--	3	3	1	1	2	2	3	1	3	2	1	
TOTAL	288	21	2	2	187	68	15	43	140	106	26	41	146	131	16	

Table 8—Log consumption by mills, by ownership class, resource area, and industry, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND INDUSTRY	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY		OTHER PRIVATE
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
NORTHWEST:								
LUMBER	646,314	48,179	245,975	76,556	5,230	119,680	76,847	73,852
VENEER AND PLYWOOD	249,997	2,596	101,781	6,608	--	96,156	27,485	15,371
PULP AND BOARD	72,067	24	515	--	1,800	43,492	37	26,401
SHAKE AND SHINGLE	2,370	65	1,145	20	100	15	430	595
EXPORT	208,792	10,786	1,695	73	1,213	1,350	182,632	11,033
POST, POLE, AND PILING	22,699	1,050	--	--	--	10,548	6,300	4,801
TOTAL	1,202,244	62,710	350,909	83,257	8,343	271,241	293,731	132,053
WEST-CENTRAL:								
LUMBER	904,083	28,370	286,018	98,914	--	279,487	96,952	111,722
VENEER AND PLYWOOD	724,999	21,018	246,864	82,458	--	243,579	52,235	78,845
SHAKE AND SHINGLE	7,981	--	3,297	901	--	--	2,967	816
EXPORT 1/	--	--	--	--	--	--	--	--
POST, POLE, AND PILING 2/	5,795	--	572	47	220	488	2,340	2,128
TOTAL	1,642,838	49,388	537,351	182,320	220	523,554	156,494	193,511
SOUTHWEST:								
LUMBER	773,916	15,524	219,325	121,787	3,031	273,160	80,310	60,779
VENEER AND PLYWOOD	848,075	17,053	209,330	100,432	2,516	406,262	73,712	38,770
PULP AND BOARD	4,587	--	321	--	--	3,532	--	734
SHAKE AND SHINGLE 3/	1,118	--	226	530	--	--	325	37
EXPORT 1/	189,377	502	4,592	1,283	--	18,050	163,781	1,169
TOTAL	1,817,073	33,079	433,794	224,032	5,547	701,004	318,128	101,489
CENTRAL:								
LUMBER	666,406	6,887	366,529	6,772	56,346	169,398	45,484	14,990
VENEER AND PLYWOOD 4/	211,885	921	79,821	770	35,069	72,514	16,458	6,332
SHAKE AND SHINGLE 3/	--	--	--	--	--	--	--	--
POST, POLE, AND PILING 2/	--	--	--	--	--	--	--	--
TOTAL	878,291	7,808	446,350	7,542	91,415	241,912	61,942	21,322
BLUE MOUNTAIN:								
LUMBER	420,151	--	243,175	462	--	76,826	55,580	44,108
VENEER AND PLYWOOD 4/	--	--	--	--	--	--	--	--
SHAKE AND SHINGLE 3/	--	--	--	--	--	--	--	--
POST, POLE, AND PILING 2/	--	--	--	--	--	--	--	--
TOTAL	420,151	--	243,175	462	--	76,826	55,580	44,108
ALL AREAS:								
LUMBER	3,410,855	98,960	1,361,622	304,491	64,607	918,551	357,173	305,451
VENEER AND PLYWOOD	2,034,956	41,588	637,796	190,268	37,585	818,511	169,890	139,318
PULP AND BOARD	76,654	24	634	--	1,800	47,024	37	27,135
SHAKE AND SHINGLE	11,469	65	4,668	1,451	100	15	3,722	1,448
EXPORT	398,169	11,298	6,287	1,356	1,213	19,400	346,413	12,202
POST, POLE, AND PILING	28,494	1,050	572	47	220	11,036	8,640	6,929
TOTAL	5,960,597	152,985	2,011,579	497,613	105,525	1,814,537	885,875	492,483

1/West-Central and Southwest combined to avoid disclosure.

2/West-Central, Central, and Blue Mountain combined to avoid disclosure.

3/Southwest, Central, and Blue Mountain combined to avoid disclosure.

4/Central and Blue Mountain combined to avoid disclosure.

Table 9—Log consumption by mills, by species, resource area, and industry, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND INDUSTRY	ALL SPECIES	DOUGLAS-FIR	HEMLOCK	TRUE FIRS	SPRUCE	PONDEROSA PINE	LODGEPOLE PINE	WESTERN REDCEDAR	OTHER SOFTWOODS	RED ALDER	OTH HARDW
NORTHWEST:											
LUMBER	646,319	421,341	160,358	18,668	2,592	170	56	26,285	553	11,922	4,
VENEER AND PLYWOOD	249,997	163,103	44,065	5,408	26,203	4,712	—	476	72	2,277	3,
PULP AND BOARD	72,067	15	48,488	300	22,953	--	300	--	--	11	
SHAKE AND SHINGLE	2,370	--	--	--	—	--	--	2,370	—	--	
EXPORT	208,792	101,586	87,808	13,993	3,773	112	—	--	622	898	
POST, POLE, AND PILING	22,699	19,069	908	--	--	--	2,722	--	--	--	
TOTAL	1,202,244	705,114	341,627	38,369	55,521	4,994	3,078	29,131	1,247	15,108	8,
WEST-CENTRAL:											
LUMBER	904,063	689,229	124,375	8,244	2,500	305	--	60,527	2,111	14,346	2,
VENEER AND PLYWOOD	724,999	632,364	55,666	9,543	2,136	4,216	15,546	2,773	1,397	1,358	
SHAKE AND SHINGLE	7,981	--	--	--	--	--	--	7,981	--	--	
EXPORT 1/	--	--	--	--	--	--	--	--	--	--	
POST, POLE, AND PILING 2/	5,795	5,795	--	--	—	--	—	--	--	--	
TOTAL	1,642,838	1,327,388	180,041	17,787	4,636	4,521	15,546	71,281	3,508	15,704	2,
SOUTHWEST:											
LUMBER	773,916	485,719	23,901	38,551	246	127,896	4,110	22,156	70,896	312	
VENEER AND PLYWOOD	848,075	665,525	96,229	64,710	3,032	433	433	913	13,432	3,368	
PULP AND BOARD	4,587	--	--	--	--	--	--	--	--	1,376	3,
SHAKE AND SHINGLE 3/	1,118	--	--	--	--	--	--	730	388	--	
EXPORT 1/	189,377	147,335	25,741	--	--	--	502	603	15,196	--	
TOTAL	1,817,073	1,298,579	145,871	103,261	3,278	128,329	5,045	24,402	99,912	5,056	3,
CENTRAL:											
LUMBER	666,406	40,707	5,298	14,859	237	533,664	56,152	--	15,489	--	
VENEER AND PLYWOOD 4/	211,885	84,108	3,493	103,219	2,316	3,805	4,658	--	10,286	--	
SHAKE AND SHINGLE 3/	--	--	--	--	--	--	--	--	--	--	
POST, POLE, AND PILING 2/	--	--	--	--	--	--	--	--	--	--	
TOTAL	878,291	124,815	8,791	118,078	2,553	537,469	60,810	--	25,775	--	
BLUE MOUNTAIN:											
LUMBER	420,151	71,835	9,898	33,690	9,576	263,916	29,937	—	1,299	—	
VENEER AND PLYWOOD 4/	--	--	--	--	--	--	--	--	--	—	
SHAKE AND SHINGLE 3/	--	--	--	--	--	--	--	--	--	--	
POST, POLE, AND PILING 2/	--	--	--	--	--	--	--	--	--	--	
TOTAL	420,151	71,835	9,898	33,690	9,576	263,916	29,937	--	1,299	--	
ALL AREAS:											
LUMBER	3,410,855	1,708,831	323,830	114,012	15,151	925,951	90,255	108,968	90,348	26,580	6,
VENEER AND PLYWOOD	2,034,956	1,545,100	199,453	182,880	33,687	13,166	20,637	4,162	25,187	7,003	3,
PULP AND BOARD	76,654	15	48,488	300	22,953	--	300	—	—	1,387	3,
SHAKE AND SHINGLE	11,469	—	--	--	--	—	--	11,081	388	--	
EXPORT	398,169	248,921	113,549	13,993	3,773	112	502	603	15,818	898	
POST, POLE, AND PILING	28,494	24,864	908	--	--	--	2,722	--	--	—	
TOTAL	5,960,597	3,527,731	686,228	311,185	75,564	939,229	114,416	124,814	131,741	35,868	13,

1/West-Central and Southwest combined to avoid disclosure.

2/West-Central, Central, and Blue Mountain combined to avoid disclosure.

3/Southwest, Central, and Blue Mountain combined to avoid disclosure.

4/Central and Blue Mountain combined to avoid disclosure.

Table 10—Production and disposition of wood and bark residue by mills, by use, resource area, and residue-producing industry, Oregon, 1982

(TONS, DRY WEIGHT)

SOURCE AREA AND RESIDUE-PRODUCING INDUSTRY	ALL RESIDUE	WOOD RESIDUE						BARK RESIDUE					
		ALL WOOD	USED 1/				UNUSED	ALL BARK	USED 1/				UNUSED
			TOTAL	PULP AND BOARD	FUEL	MISCELLANEOUS			TOTAL	PULP AND BOARD	FUEL	MISCELLANEOUS	
NORTHWEST:													
Lumber	[illegible]	[illegible]	[illegible]	[illegible]	126,425	47,139	2,827	228,018	227,532	5,650	143,444	68,438	486
Lumber and plywood	[illegible]	[illegible]	[illegible]	[illegible]	69,850	30,040	--	114,470	114,470	--	114,470	--	--
Other wood products	[illegible]	[illegible]	1,078	-	634	444	1,078	509	509	--	361	148	1,078
TOTAL	[illegible]	1,[illegible]	[illegible]	451,[illegible]	[illegible],264	77,619	[illegible],[illegible]	343,[illegible]	342,517	5,650	[illegible],[illegible]	68,612	[illegible]
CENTRAL:													
Lumber	[illegible]	[illegible]	[illegible]	[illegible]	[illegible],115	[illegible],[illegible]	56	[illegible],[illegible]	[illegible],[illegible]	--	307,389	10,349	14
Lumber and plywood	1,[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	165,508	[illegible]	263,999	263,999	--	[illegible],[illegible]	[illegible],[illegible]	[illegible]
Other wood products	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	271	1,555	1,484	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
EAST:													
Lumber	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	4,969	[illegible]
Lumber and plywood	[illegible]	[illegible]	[illegible]	[illegible]	302,433	140,087	5,164	299,929	299,929	--	[illegible]	570	-
Other wood products	[illegible]	[illegible]	[illegible]	[illegible]	177	[illegible]	862	363	90	--	[illegible]	-	273
TOTAL	2,754,106	2,201,359	2,195,163	1,497,514	[illegible],[illegible]	[illegible],[illegible]	6,196	[illegible],[illegible]	[illegible],[illegible]	-	[illegible],[illegible]	5,539	[illegible]
SOUTH CENTRAL:													
Lumber	[illegible]	[illegible]	[illegible]	[illegible]	344,393	[illegible]	4,484	177,[illegible]	174,450	--	[illegible],[illegible]	[illegible],[illegible]	[illegible]
Lumber and plywood	[illegible]	269,424	269,049	198,863	[illegible],[illegible]	31,894	[illegible]	[illegible],[illegible]	[illegible],[illegible]	--	[illegible],[illegible]	--	[illegible]
Other wood products	[illegible]	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible],[illegible]	4,[illegible]	248,816	245,175	--	[illegible],[illegible]	[illegible],[illegible]	3,641
SOUTHEAST:													
Lumber	[illegible],[illegible]	[illegible]	[illegible]	[illegible],[illegible]	[illegible],[illegible]	[illegible]	1,955	112,071	111,465	--	107,299	4,166	[illegible]
Lumber and plywood	[illegible]	-	--	-	-	--	--	-	--	--	-	--	--
Other wood products	[illegible]	-	-	-	--	--	--	--	-	--	--	--	--
TOTAL	[illegible],[illegible]	494,335	492,380	[illegible],[illegible]	269,306	946	1,955	112,071	111,465	--	107,299	4,166	606
AREA WITHHELD													
Lumber	[illegible],[illegible],[illegible]	[illegible],[illegible],[illegible]	[illegible],[illegible],[illegible]	[illegible],[illegible],[illegible]	1,181,047	97,355	9,494	[illegible],[illegible]	1,083,681	5,650	947,552	130,379	4,105
Lumber and plywood	3,671,989	2,922,165	2,916,463	1,883,845	665,094	367,524	[illegible],[illegible]	749,824	749,123	--	731,462	17,661	[illegible]
Other wood products	10,424	7,698	5,487	365	3,850	[illegible]	[illegible]	2,726	2,083	[illegible]	[illegible]	[illegible]	643
TOTAL	8,991,357	7,151,121	7,133,714	4,817,522	1,850,041	466,151	17,407	1,840,236	1,834,787	5,666	1,680,804	148,317	[illegible]

1/ Residues are not necessarily used in the area in which they are produced. Included are residues exported from Oregon.

2/ Southwest, Central, and Blue Mountain combined to avoid disclosure.

3/ Central and Blue Mountain combined to avoid disclosure.

Table 11—Number of sawmills by mill-size class, resource area, and county, Oregon, 1982

RESOURCE AREA AND COUNTY	ALL CLASSES	MILL-SIZE CLASS 1/			
		D	C	B	A
NORTHWEST:					
CLACKAMAS	11	4	2	1	4
CLATSOP	2	1	--	--	1
COLUMBIA	5	1	2	1	1
HOOD RIVER	2	--	--	1	1
MARION	5	--	2	3	--
MULTNOMAH	2	--	--	2	--
POLK	6	2	--	1	3
TILLAMOOK	3	2	--	--	1
WASHINGTON	3	1	--	1	1
YAMHILL	4	1	--	1	2
TOTAL	43	12	6	11	14
WEST-CENTRAL:					
BENTON	6	1	1	4	--
LANE	22	--	2	6	14
LINCOLN	2	--	1	--	1
LINN	10	--	4	--	6
TOTAL	40	1	8	10	21
SOUTHWEST:					
COOS	8	2	2	--	4
CURRY	2	1	--	--	1
DOUGLAS	16	1	1	2	12
JACKSON	6	--	1	3	2
JOSEPHINE	4	--	--	2	2
TOTAL	36	4	4	7	21
CENTRAL:					
CROOK	4	--	2	1	1
DESCHUTES	2	1	--	--	1
JEFFERSON	1	--	--	1	--
KLAMATH	6	--	1	1	4
LAKE	5	--	1	4	--
WASCO	3	--	--	2	1
TOTAL	21	1	4	9	7
BLUE MOUNTAIN:					
BAKER	2	1	--	--	1
GRANT	4	--	1	2	1
HARNEY	1	--	--	--	1
MORROW	1	--	--	--	1
UMATILLA	4	--	1	1	2
UNION	4	2	--	--	2
WALLOWA	5	2	2	1	--
TOTAL	21	5	4	4	8
ALL AREAS	161	23	26	41	71

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 12—Installed 8-hour capacity of sawmills by mill-size class, resource area, and county, Oregon, 1982

(THOUSAND BOARD FEET, LUMBER TALLY)

RESOURCE AREA AND COUNTY	ALL CLASSES	MILL-SIZE CLASS 1/			
		D	C	B	A
NORTHWEST:					
CLACKAMAS	1,516	48	143	90	1,235
CLATSOP	268	18	--	--	250
COLUMBIA	320	5	110	80	125
HOOD RIVER	395	--	--	110	285
MARION	390	--	100	290	--
MULTNOMAH	200	--	--	200	--
POLK	612	37	--	100	475
TILLAMOOK	265	33	--	--	232
WASHINGTON	360	10	--	100	250
YAMHILL	640	10	--	100	530
TOTAL	4,966	161	353	1,070	3,382
WEST-CENTRAL:					
BENTON	470	20	70	380	--
LANE	3,767	--	120	600	3,047
LINCOLN	223	--	75	--	148
LINN	1,070	--	225	--	845
TOTAL	5,530	20	490	980	4,040
SOUTHWEST:					
COOS	860	15	125	--	720
CURRY	190	25	--	--	165
DOUGLAS	2,740	10	50	185	2,495
JACKSON	910	--	75	300	535
JOSEPHINE	725	--	--	175	550
TOTAL	5,425	50	250	660	4,465
CENTRAL:					
CROOK	430	--	145	85	200
DESCHUTES	345	20	--	--	325
JEFFERSON	95	--	--	95	--
KLAMATH	1,183	--	50	100	1,033
LAKE	400	--	60	340	--
WASCO	360	--	--	220	140
TOTAL	2,813	20	255	840	1,698
BLUE MOUNTAIN:					
BAKER	126	1	--	--	125
GRANT	390	--	75	175	140
HARNEY	165	--	--	--	165
MORROW	210	--	--	--	210
UMATILLA	510	--	40	90	380
UNION	344	44	--	--	300
WALLOWA	275	30	145	100	--
TOTAL	2,020	75	260	365	1,320
ALL AREAS	20,754	326	1,608	3,915	14,905

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 13—Number of sawmills by mill-size class, resource area, and selected equipment, Oregon, 1982

RESOURCE AREA AND SELECTED EQUIPMENT	ALL CLASSES	MILL-SIZE CLASS 1/			
		D	C	B	A
NORTHWEST:					
BARKER	27	3	3	9	12
CHIPPER	36	6	5	11	14
PLANER	32	4	5	9	14
BURNER	2	--	--	--	2
KILN	16	3	2	2	9
WEST-CENTRAL:					
BARKER	37	--	8	10	19
CHIPPER	39	1	8	10	20
PLANER	36	--	6	10	20
BURNER	2	--	1	--	1
KILN	17	--	2	2	13
SOUTHWEST:					
BARKER	32	1	4	6	21
CHIPPER	31	3	4	7	17
PLANER	31	--	4	7	20
BURNER	1	--	--	1	--
KILN	19	--	2	5	12
CENTRAL:					
BARKER	19	--	4	8	7
CHIPPER	19	--	4	8	7
PLANER	18	--	3	8	7
BURNER	3	--	--	2	1
KILN	16	--	3	7	6
BLUE MOUNTAIN:					
BARKER	17	1	4	4	8
CHIPPER	16	--	4	4	8
PLANER	17	4	2	3	8
BURNER	3	2	1	--	--
KILN	12	--	3	1	8
ALL AREAS:					
BARKER	132	5	23	37	67
CHIPPER	141	10	25	40	66
PLANER	134	8	20	37	69
BURNER	11	2	2	3	4
KILN	80	3	12	17	48

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 14—Number of sawmills by selected equipment, resource area, and county, Oregon, 1982

RESOURCE AREA AND COUNTY	BARKER	CHIPPER	PLANER	BURNER	KILN
NORTHWEST:					
CLACKAMAS	6	7	9	1	3
CLATSOP	1	2	2	--	1
COLUMBIA	3	4	3	--	--
HOOD RIVER	2	2	2	--	2
MARION	3	5	4	--	2
MULTNOMAH	1	2	2	--	--
POLK	5	6	4	1	2
TILLAMOOK	1	3	1	--	2
WASHINGTON	2	2	3	--	2
YAMHILL	3	3	2	--	2
TOTAL	27	36	32	2	16
WEST-CENTRAL:					
BENTON	5	6	5	--	--
LANE	21	22	20	--	11
LINCOLN	2	1	2	--	--
LINN	9	10	9	2	6
TOTAL	37	39	36	2	17
SOUTHWEST:					
COOS	6	7	6	--	1
CURRY	2	2	1	--	--
DOUGLAS	15	12	14	--	10
JACKSON	5	6	6	1	5
JOSEPHINE	4	4	4	--	3
TOTAL	32	31	31	1	19
CENTRAL:					
CROOK	4	4	4	--	4
DESCHUTES	1	1	1	--	1
JEFFERSON	1	1	1	--	1
KLAMATH	6	6	5	1	5
LAKE	4	4	4	2	4
WASCO	3	3	3	--	1
TOTAL	19	19	18	3	16
BLUE MOUNTAIN:					
BAKER	1	1	1	--	1
GRANT	4	4	3	--	2
HARNEY	1	1	1	--	1
MORROW	1	1	1	--	1
UMATILLA	4	4	3	--	3
UNION	2	2	4	1	2
WALLOWA	4	3	4	2	2
TOTAL	17	16	17	3	12
ALL AREAS	132	141	134	11	80

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 15—Number of sawmills by type and size of headrig, resource area, and mill-size class, Oregon, 1982

RESOURCE AREA AND MILL-SIZE CLASS 2/	CIRCULAR SAW					BAND SAW					GANG SAW			CHIPPING SAW			SCRAGG DOUBLE-CUT SA	
	2 ft	4 ft	6 ft	8 ft	10+ ft	2 ft	4 ft	6 ft	8 ft	10+ ft	2 ft	3 ft	4 ft	2 ft	3 ft	4 ft	2 ft	3 ft
NORTHWEST:																		
D	1	8	2	--	--	1	--	--	--	--	--	--	--	--	--	--	1	--
C	--	1	1	--	--	--	1	3	--	--	--	--	--	--	--	--	--	--
B	--	1	--	--	--	1	2	5	--	--	--	--	--	2	--	--	3	--
A	--	1	--	--	--	--	3	9	1	--	1	--	--	--	--	--	2	--
TOTAL	1	11	3	--	--	2	6	17	1	--	1	--	--	2	--	--	6	--
WEST-CENTRAL:																		
D	--	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
C	--	--	--	--	--	--	3	2	1	--	--	--	--	1	--	--	1	--
B	--	--	--	--	1	1	2	5	--	--	--	1	--	1	--	--	--	--
A	--	--	--	--	--	--	1	15	2	--	--	1	--	2	--	1	4	--
TOTAL	--	--	1	--	1	1	6	22	3	--	1	2	--	4	--	1	5	--
SOUTHWEST:																		
D	--	2	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	--	2	1	--	--	--	--	--	--	1	--	--
B	--	--	--	--	--	--	--	5	1	--	--	--	--	1	--	--	--	--
A	--	1	1	--	--	2	2	11	4	1	1	--	--	3	--	--	2	--
TOTAL	--	3	2	--	--	2	2	19	6	1	1	--	--	4	--	1	2	--
CENTRAL:																		
D	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	1	2	1	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	1	[illegible]	--	--	--	--	--	--	--	--	--	--
A	--	--	--	--	--	--	--	7	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	1	--	--	--	2	17	1	--	--	--	--	--	--	--	--	--
BLUE MOUNTAIN:																		
D	--	4	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	1	2	--	--	--	--	--	--	--	--	1	--
B	1	--	--	--	--	--	--	2	1	--	--	--	--	--	--	--	--	--
A	--	--	--	--	--	--	3	5	--	--	2	--	--	1	--	--	1	--
TOTAL	1	4	1	--	--	--	4	9	1	--	2	--	--	1	--	--	2	--
ALL AREAS:																		
D	1	14	6	--	--	1	--	1	--	--	1	--	--	--	--	--	1	--
C	--	1	1	--	--	--	6	11	3	--	--	--	--	1	--	1	2	--
B	1	1	--	--	1	2	5	25	2	--	--	1	--	4	--	--	3	--
A	--	2	1	--	--	2	9	47	7	1	4	1	--	6	--	1	9	--
TOTAL	2	18	8	--	1	5	20	84	12	1	5	2	--	11	--	2	15	--

1/Headrig sizes are upper limits; for example, the 6-foot size class includes 49 through 72 inches.

2/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 16—Number of sawmills by tenure of present owner, mill-size class, and years at present site, Oregon, 1982

MILL-SIZE CLASS 1/ AND YEARS AT PRESENT SITE	ALL MILLS	TENURE OF PRESENT OWNER (YEARS)				
		0-2	3-5	6-10	11-20	21 PLUS
D:						
3-5	2	--	2	--	--	--
6-10	2	--	--	1	1	--
11-20	5	1	--	--	4	--
21 PLUS	14	--	1	1	--	12
TOTAL	23	1	3	2	5	12
C:						
3-5	3	--	3	--	--	--
6-10	3	1	--	2	--	--
11-20	6	--	--	2	3	1
21 PLUS	14	--	--	1	2	11
TOTAL	26	1	3	5	5	12
B:						
0-2	1	1	--	--	--	--
6-10	5	--	--	5	--	--
11-20	6	--	--	2	4	--
21 PLUS	29	1	3	4	3	18
TOTAL	41	2	3	11	7	18
A:						
6-10	3	--	--	3	--	--
11-20	8	1	1	--	4	2
21 PLUS	60	3	1	3	6	47
TOTAL	71	4	2	6	10	49
ALL CLASSES:						
0-2	1	1	--	--	--	--
3-5	5	--	5	--	--	--
6-10	13	1	--	11	1	--
11-20	25	2	1	4	15	3
21 PLUS	117	4	5	9	11	88
TOTAL	161	8	11	24	27	91

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 17—Average number of operating days per year by sawmills, by mill-size class and resource area, Oregon, 1982

RESOURCE AREA	ALL CLASSES	MILL-SIZE CLASS 1/			
		D	C	B	A
NORTHWEST	174	149	198	178	181
WEST-CENTRAL	200	120	208	203	199
SOUTHWEST	185	121	223	176	193
CENTRAL	214	65	185	233	226
BLUE MOUNTAIN	180	91	222	205	202
ALL AREAS	189	126	207	199	197

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 18—Wood consumption by sawmills, by type of material, resource area, and mill-size class, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL WOOD	ROUNDWOOD			OTHER WOOD	
		ALL ROUNDWOOD	SOUND LOGS	UTILITY LOGS	PEELER CORES	CANTS
NORTHWEST:						
D	21,504	19,414	12,140	7,274	2,090	--
C	46,578	46,578	41,764	4,814	--	--
B	134,646	102,134	82,759	19,375	32,512	--
A	492,684	478,193	445,493	32,700	14,491	--
TOTAL	695,412	646,319	582,156	64,163	49,093	--
WEST-CENTRAL:						
D AND C 2/	103,525	89,365	75,974	13,391	14,160	--
B	147,605	147,585	143,941	3,644	--	20
A	717,823	667,113	542,582	124,531	50,710	--
TOTAL	968,953	904,063	762,497	141,566	64,870	20
SOUTHWEST:						
D	3,142	3,142	2,924	218	--	--
C	35,812	29,812	29,166	646	6,000	--
B	134,660	134,660	132,097	2,563	--	--
A	676,814	606,302	533,561	72,741	24,699	45,813
TOTAL	850,428	773,916	697,748	76,168	30,699	45,813
CENTRAL:						
D AND C 2/	55,552	55,552	54,313	1,239	--	--
B	166,481	166,481	153,807	12,674	--	--
A	444,373	444,373	430,767	13,606	--	--
TOTAL	666,406	666,406	638,887	27,519	--	--
BLUE MOUNTAIN:						
D	9,130	9,130	8,587	543	--	--
C	63,016	63,016	52,093	10,923	--	--
B	59,500	59,500	41,285	18,215	--	--
A	326,507	288,505	287,424	1,081	8,270	29,732
TOTAL	458,153	420,151	389,389	30,762	8,270	29,732
ALL AREAS:						
D	33,776	31,686	23,651	8,035	2,090	--
C	304,483	284,323	253,310	31,013	20,160	--
B	642,892	610,360	553,889	56,471	32,512	20
A	2,658,201	2,484,486	2,239,827	244,659	98,170	75,545
TOTAL	3,639,352	3,410,855	3,070,677	340,178	152,932	75,565

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Combined to avoid disclosure.

Table 19—Log consumption by sawmills, by age group of timber, resource area, and mill-size class, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL AGE GROUPS	OLD GROWTH (100 YEARS AND OLDER)	YOUNG GROWTH (LESS THAN 100 YEARS)
NORTHWEST:			
D	19,414	665	18,749
C	46,578	17,415	29,163
B	102,134	27,891	74,243
A	478,193	192,145	286,048
TOTAL	646,319	238,116	408,203
WEST-CENTRAL:			
D AND C 2/	89,365	53,030	36,335
B	147,585	91,234	56,351
A	667,113	471,140	195,973
TOTAL	904,063	615,404	288,659
SOUTHWEST:			
D	3,142	2,154	988
C	29,812	25,642	4,170
B	134,660	116,628	18,032
A	606,302	472,528	133,774
TOTAL	773,916	616,952	156,964
CENTRAL:			
D AND C 2/	55,552	47,874	7,678
B	166,481	141,554	24,927
A	444,373	220,806	223,567
TOTAL	666,406	410,234	256,172
BLUE MOUNTAIN:			
D	9,130	8,497	633
C	63,016	33,823	29,193
B	59,500	43,500	16,000
A	288,505	202,861	85,644
TOTAL	420,151	288,681	131,470
ALL AREAS:			
D	31,686	11,316	20,370
C	284,323	177,784	106,539
B	610,360	420,807	189,553
A	2,484,486	1,559,480	925,006
TOTAL	3,410,855	2,169,387	1,241,468

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Combined to avoid disclosure.

Table 20—Log consumption by sawmills, by age group of timber, resource area, and county of use, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	ALL AGE GROUPS	OLD GROWTH (100 YEARS AND OLDER)	YOUNG GROWTH (LESS THAN 100 YEARS)
NORTHWEST:			
CLACKAMAS	196,984	128,912	68,072
CLATSOP AND COLUMBIA 1/	40,885	2,676	38,209
HOOD RIVER AND MULTMONAH 1/	43,175	23,040	20,135
MARION	42,700	7,100	35,600
POLK	88,761	49,451	39,310
TILLAMOOK	43,064	--	43,064
WASHINGTON	80,008	19,000	61,008
YAMHILL	110,742	7,937	102,805
TOTAL	646,319	238,116	408,203
WEST-CENTRAL:			
BENTON AND LINCOLN 1/	102,335	51,873	50,462
LANE	626,990	441,334	185,656
LINN	174,738	122,197	52,541
TOTAL	904,063	615,404	288,659
SOUTHWEST:			
COOS AND CURRY 1/	241,244	221,453	19,791
DOUGLAS	289,933	190,536	99,397
JACKSON	148,698	125,205	23,493
JOSEPHINE	94,041	79,758	14,283
TOTAL	773,916	616,952	156,964
CENTRAL:			
CROOK	77,403	63,260	14,143
DESCHUTES AND JEFFERSON 1/	155,485	124,468	31,017
KLAMATH	317,210	128,723	188,487
LAKE	62,372	47,937	14,435
WASCO	53,936	45,846	8,090
TOTAL	666,406	410,234	256,172
BLUE MOUNTAIN:			
BAKER AND WALLOWA 1/	101,870	56,199	45,671
GRANT AND HARNEY 1/	117,400	103,100	14,300
MORROW AND UMATILLA 1/	110,475	80,219	30,256
UNION	90,406	49,163	41,243
TOTAL	420,151	288,681	131,470
ALL AREAS	3,410,855	2,169,387	1,241,468

1/Combined to avoid disclosure.

Table 21—Log inventory, log consumption, and estimated log receipts by sawmills by resource area, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	LOG INVENTORY			LOG CONSUMPTION	ESTIMAT LOG RECEIPT
	JANUARY 1, 1982	DECEMBER 31, 1982	NET CHANGE		
NORTHWEST	182,899	142,757	-40,142	646,319	606,1
WEST-CENTRAL	184,270	201,302	+17,032	904,063	921,0
SOUTHWEST	192,138	149,325	-42,813	773,916	731,1
CENTRAL	133,685	153,161	+19,476	666,406	685,8
BLUE MOUNTAIN	128,339	118,778	-9,561	420,151	410,5
ALL AREAS	821,331	765,323	-56,008	3,410,855	3,354,8

Table 22—Log consumption by sawmills, by ownership class, resource area, and mill-size class, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY		OTHER PRIVATE
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
NORTHWEST:								
D	19,414	770	10,573	1,030	--	1,066	4,750	1,225
C	46,578	7,744	6,034	2,503	--	4,368	18,563	7,366
B	102,134	11,977	47,273	12,099	--	7,050	15,115	8,620
A	478,193	27,688	182,095	60,924	5,230	107,196	38,419	56,641
TOTAL	646,319	48,179	245,975	76,556	5,230	119,680	76,847	73,852
WEST-CENTRAL:								
D AND C 2/	89,365	6,844	33,493	13,858	--	13,872	5,711	15,587
B	147,585	3,895	62,808	31,517	--	3,631	13,543	32,191
A	667,113	17,631	190,317	53,539	--	261,984	79,699	63,943
TOTAL	904,063	28,370	286,618	98,914	--	279,487	98,952	111,722
SOUTHWEST:								
D	3,142	273	273	546	--	--	795	1,255
C	29,812	--	18,845	7,177	--	2,400	300	1,090
B	134,660	--	53,635	28,097	--	3,003	8,821	41,104
A	606,302	15,251	146,572	85,967	3,031	267,757	70,394	17,330
TOTAL	773,916	15,524	219,325	121,787	3,031	273,160	80,310	60,779
CENTRAL:								
D AND C 2/	55,552	--	37,352	--	--	100	8,622	9,478
B	166,481	4,887	98,414	--	54,129	2,463	5,313	1,275
A	444,373	2,000	230,763	6,772	2,217	166,835	31,549	4,237
TOTAL	666,406	6,887	366,529	6,772	56,346	169,398	45,484	14,990
BLUE MOUNTAIN:								
D	9,130	--	6,693	--	--	20	1,750	667
C	63,016	--	39,626	--	--	3,598	4,078	15,714
B	59,500	--	38,400	--	--	--	9,000	12,100
A	288,505	--	158,456	462	--	73,208	40,752	15,627
TOTAL	420,151	--	243,175	462	--	76,826	55,580	44,108
ALL AREAS:								
D	31,686	1,043	17,539	1,576	--	1,086	7,295	3,147
C	284,323	14,588	135,350	23,538	--	24,338	37,273	49,236
B	610,360	20,759	300,530	71,713	54,129	16,147	51,792	95,290
A	2,484,486	62,570	908,203	207,664	10,478	876,980	260,813	157,778
TOTAL	3,410,855	98,960	1,361,622	304,491	64,607	918,551	357,173	305,451

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Combined to avoid disclosure.

Table 23—Log consumption by sawmills, by ownership class, resource area, and county of use, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGENEMT	OTHER PUBLIC	FOREST INDUSTRY		OTH PRI
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
NORTHWEST:								
CLACKAMAS	196,984	9,364	114,063	7,921	3,293	29,270	22,686	1
CLATSOP AND COLUMBIA 1/	40,885	6,372	--	--	--	898	18,985	1
HOOD RIVER AND MULTNOMAH 1/	43,175	553	25,916	--	1,937	6,500	6,919	
MARION	42,700	9,700	12,275	6,625	--	--	6,480	
POLK	88,761	7,398	30,274	16,100	--	8,474	15,327	1
TILLAMOOK	43,064	1,155	3,950	150	--	29,656	450	
WASHINGTON	80,008	7,500	14,000	10,000	--	35,008	6,000	
YAMHILL	110,742	6,137	45,497	35,760	--	9,874	--	1
TOTAL	646,319	48,179	245,975	76,556	5,230	119,680	76,847	7
WEST-CENTRAL:								
BENTON AND LINCOLN 1/	102,335	6,177	36,352	17,518	--	18,604	9,183	1
LANE	626,990	11,797	199,959	64,643	--	223,060	63,528	6
LINN	174,738	10,396	50,307	16,753	--	37,823	26,241	3
TOTAL	904,063	28,370	286,618	98,914	--	279,487	98,952	11
SOUTHWEST:								
COOS AND CURRY 1/	241,244	10,803	26,612	16,076	--	156,885	25,013	
DOUGLAS	289,933	4,721	74,875	58,552	3,031	113,067	26,241	
JACKSON	148,698	--	59,222	22,873	--	3,003	23,684	3
JOSEPHINE	94,041	--	58,616	24,286	--	205	5,372	
TOTAL	773,916	15,524	219,325	121,787	3,031	273,160	80,310	6
CENTRAL:								
CROOK	77,403	--	59,890	--	1,696	2,848	9,571	
DESCHUTES AND JEFFERSON 1/	155,485	--	90,700	--	42,085	100	22,600	
KLAMATH	317,210	6,887	113,171	6,772	--	165,475	13,313	1
LAKE	62,372	--	61,397	--	--	975	--	
WASCO	53,936	--	41,371	--	12,565	--	--	
TOTAL	666,406	6,887	366,529	6,772	56,346	169,398	45,484	1
BLUE MOUNTAIN:								
BAKER AND WALLOWA 1/	101,870	--	75,234	--	--	3,618	5,828	1
GRANT AND HARNEY 1/	117,400	--	105,600	--	--	--	2,000	
MORROW AND UMATILLA 1/	110,475	--	36,957	--	--	28,675	35,843	
UNION	90,406	--	25,384	462	--	44,533	11,909	
TOTAL	420,151	--	243,175	462	--	76,826	55,580	4
ALL AREAS	3,410,855	98,960	1,361,622	304,491	64,607	918,551	357,173	30

1/Combined to avoid disclosure.

Table 24—Dependency (%) of sawmills on logs by ownership class, resource area, and mill-size class, Oregon, 1982

(NUMBER OF MILLS)

RESOURCE AREA AND MILL-SIZE CLASS 1/	NATIONAL FOREST				STATE				BUREAU OF LAND MANAGEMENT			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
NORTHWEST:												
D	7	1	1	2	9	1	1	—	9	1	--	1
C	3	3	--	--	2	3	1	--	2	4	--	--
B	5	--	2	3	5	3	1	--	5	3	2	--
A	2	4	7	1	1	12	1	—	6	7	1	--
TOTAL	17	8	10	6	17	19	5	--	22	15	3	1
WEST-CENTRAL:												
D	--	--	1	--	--	1	--	--	--	1	--	--
C	1	4	2	1	2	5	--	--	1	6	1	--
B	1	3	2	3	6	5	--	--	3	6	--	1
A	3	7	4	5	12	7	--	--	7	11	1	--
TOTAL	5	14	9	10	19	18	--	--	11	24	2	1
SOUTHWEST:												
D	3	1	--	--	3	1	--	--	3	1	--	--
C	--	1	1	2	4	--	--	--	1	3	--	--
B	2	2	2	1	7	--	--	--	1	4	--	2
A	4	7	7	3	17	4	--	--	3	15	3	--
TOTAL	9	11	10	6	31	5	--	--	8	23	3	2
CENTRAL:												
D	--	--	--	1	1	--	--	--	1	--	--	--
C	1	—	1	2	4	--	—	--	4	--	--	--
B	1	--	2	6	8	1	--	—	9	--	--	--
A	--	1	1	5	6	1	--	--	5	2	--	--
TOTAL	2	1	4	14	19	2	--	--	19	2	--	--
BLUE MOUNTAIN:												
D	2	—	--	3	5	--	--	--	5	--	--	--
C	--	--	2	2	4	--	--	--	4	--	—	--
B	—	--	2	2	4	—	--	--	4	—	--	--
A	--	4	--	4	8	--	--	--	7	1	--	--
TOTAL	2	4	4	11	21	--	--	--	20	1	--	--
ALL AREAS:												
D	12	2	2	6	18	3	1	--	18	3	--	1
C	5	8	6	7	16	9	1	--	12	13	1	--
B	9	5	10	16	29	9	2	--	22	13	2	3
A	9	23	19	18	44	24	1	--	28	36	5	--
TOTAL	35	38	37	47	107	45	5	--	80	65	8	4

See footnote at end of table

Table 24—Dependency (%) of sawmills on logs by ownership class, resource area, and mill-size class, Oregon, 1982 (continued)

(NUMBER OF MILLS)

RESOURCE AREA AND MILL-SIZE CLASS 1/	OTHER PUBLIC				FOREST INDUSTRY								OTHER PRIVATE			
					OWN WOOD SUPPLY				OTHER WOOD SUPPLY							
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
NORTHWEST:																
D	11	--	--	--	7	--	1	3	8	2	--	1	4	4	1	2
C	6	--	--	--	4	2	--	--	2	--	2	2	1	5	--	--
B	10	--	--	--	6	1	--	1	5	2	2	1	4	5	1	--
A	12	2	--	--	6	5	1	2	6	7	1	--	4	9	--	1
TOTAL	39	2	--	--	25	8	2	6	21	11	5	4	13	23	2	3
WEST-CENTRAL:																
D	1	--	--	--	1	--	--	--	1	--	--	--	--	1	--	--
C	8	--	--	--	3	4	1	--	3	5	--	--	2	5	1	--
B	10	--	--	--	5	5	--	--	6	3	--	1	3	5	1	1
A	19	--	--	--	7	8	1	3	4	13	1	1	7	12	--	--
TOTAL	38	--	--	--	16	17	2	3	14	21	1	2	12	23	2	1
SOUTHWEST:																
D	4	--	--	--	4	--	--	--	1	2	--	1	1	--	1	2
C	4	--	--	--	3	--	--	1	3	1	--	--	3	1	--	--
B	7	--	--	--	5	2	--	--	3	4	--	--	4	1	--	2
A	17	4	--	--	10	5	1	5	8	10	3	--	10	11	--	--
TOTAL	32	4	--	--	22	7	1	6	15	17	3	1	18	13	1	4
CENTRAL:																
D	1	--	--	--	--	1	--	--	1	--	--	--	1	--	--	--
C	4	--	--	--	4	--	--	--	3	1	--	--	2	1	--	1
B	5	2	1	1	7	2	--	--	3	1	--	--	3	1	--	--
A	5	2	--	--	3	3	--	1	4	3	--	--	5	2	--	--
TOTAL	15	4	1	1	14	6	--	1	16	5	--	--	16	4	--	1
BLUE MOUNTAIN:																
D	5	--	--	--	4	--	--	1	4	1	--	--	1	3	--	1
C	4	--	--	--	3	1	--	--	3	1	--	--	--	3	1	--
B	4	--	--	--	4	--	--	--	2	1	1	--	1	2	1	--
A	8	--	--	--	5	1	--	2	5	2	--	1	1	7	--	--
TOTAL	21	--	--	--	16	2	--	3	14	5	1	1	3	15	2	1
ALL AREAS:																
D	22	--	--	--	16	1	1	4	15	5	--	2	7	8	2	5
C	26	--	--	--	17	7	1	1	14	8	2	2	8	15	2	1
B	36	2	1	1	29	10	--	1	24	11	3	2	20	14	3	3
A	61	8	--	--	31	22	3	13	27	35	5	2	27	41	--	1
TOTAL	145	10	1	1	93	40	5	19	80	59	10	8	62	78	7	10

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 25—Log consumption by sawmills, by species, resource area, and mill-size class, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL SPECIES	DOUGLAS-FIR	HEMLOCK	TRUE FIRS	SPRUCE	PONDEROSA PINE	LODGEPOLE PINE	WESTERN REDCEDAR	OTHER SOFTWOODS	RED ALDER	OTHER HARDWOODS
NORTHWEST:											
D	19,414	1,892	6,035	30	—	170	--	491	--	9,997	799
C	46,578	15,034	1,458	700	—	--	56	23,830	--	1,925	3,575
B	102,134	59,035	34,649	6,750	450	--	--	1,250	--	--	--
A	478,193	345,380	118,216	11,188	2,142	--	--	714	553	--	--
TOTAL	646,319	421,341	160,358	18,668	2,592	170	56	26,285	553	11,922	4,374
WEST-CENTRAL:											
D AND C 2/	89,365	65,716	6,042	765	--	--	--	--	70	14,346	2,426
B	147,585	119,924	6,786	36	--	--	--	20,269	570	--	--
A	657,113	503,589	111,547	7,443	2,500	305	--	40,258	1,471	--	--
TOTAL	904,063	689,229	124,375	8,244	2,500	305	--	60,527	2,111	14,346	2,426
SOUTHWEST:											
D	3,142	924	218	409	246	--	--	631	273	312	129
C	29,812	14,067	755	90	--	11,920	--	--	2,980	--	--
B	134,660	35,505	--	33,707	--	63,240	--	--	2,208	--	--
A	606,302	435,223	22,928	4,345	--	52,736	4,110	21,525	65,435	--	--
TOTAL	773,916	485,719	23,901	38,551	246	127,896	4,110	22,156	70,896	312	129
CENTRAL:											
D AND C 2/	55,552	749	287	1,593	--	45,468	--	--	7,455	--	--
B	166,481	17,953	2,904	8,317	—	124,060	6,836	--	6,411	--	--
A	444,373	22,005	2,107	4,949	237	364,136	49,316	--	1,623	--	--
TOTAL	666,406	40,707	5,298	14,859	237	533,664	56,152	--	15,489	--	--
BLUE MOUNTAIN:											
D	9,130	1,302	—	485	98	245	7,000	--	--	--	--
C	63,016	8,480	1,600	1,679	1,600	43,530	6,127	--	--	--	--
B	59,500	12,475	4,600	5,475	3,200	26,950	6,800	--	--	--	--
A	288,505	49,578	3,698	26,051	4,678	193,191	10,010	--	1,299	--	--
TOTAL	420,151	71,835	9,898	33,690	9,576	263,916	29,937	--	1,299	--	--
ALL AREAS:											
D	31,686	4,118	6,253	924	344	415	7,000	1,122	273	10,309	928
C	284,323	104,046	10,142	4,827	1,600	100,918	6,183	23,830	10,505	16,271	6,001
B	610,360	244,892	48,939	54,285	3,650	214,250	13,636	21,519	9,189	--	--
A	2,484,486	1,355,775	258,496	53,976	9,557	610,368	63,436	62,497	70,381	--	--
TOTAL	3,410,855	1,708,831	323,830	114,012	15,151	925,951	90,255	108,968	90,348	26,580	6,929

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Combined to avoid disclosure.

Table 26—Log consumption by sawmills, by species, resource area, and county of use, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	ALL SPECIES	DOUGLAS-FIR	HEMLOCK	TRUE FIRS	SPRUCE	PONDEROSA PINE	LODGEPOLE PINE	WESTERN REDCEDAR	OTHER SOFTWOODS	RED ALDER	OTH HARDW
NORTHWEST:											
CLACKAMAS	196,984	137,814	43,256	30	--	170	56	15,628	--	--	
CLATSOP AND COLUMBIA 1/	40,885	28,227	3,610	--	--	--	--	8,300	--	748	
HOOD RIVER AND MILTNOMAH 1/	43,175	22,276	10,102	9,794	450	--	--	--	553	--	
MARION	42,700	24,420	10,630	700	--	--	--	1,450	--	1,925	3,5
POLK	88,761	55,211	27,302	544	216	--	--	20	--	5,164	3
TILLAMOOK	43,064	5,777	30,426	--	1,926	--	--	385	--	4,085	4
WASHINGTON	80,008	65,004	7,502	7,000	--	--	--	502	--	--	
YAMHILL	110,742	82,612	27,530	600	--	--	--	--	--	--	
TOTAL	646,319	421,341	160,358	18,668	2,592	170	56	26,285	553	11,922	4,3
WEST-CENTRAL:											
BENTON AND LINCOLN 1/	102,335	90,824	236	36	--	--	--	9,439	--	1,620	1
LANE	626,990	504,258	51,504	916	2,500	305	--	50,494	2,041	12,726	2,2
LINN	174,738	94,147	72,635	7,292	--	--	--	594	70	--	
TOTAL	904,063	689,229	124,375	8,244	2,500	305	--	60,527	2,111	14,346	2,4
SOUTHWEST:											
COOS AND CURRY 1/	241,244	232,110	1,689	1,499	246	--	--	5,208	273	90	1
DOUGLAS	289,933	176,200	18,945	3,345	--	16,034	4,110	16,948	54,129	222	
JACKSON	148,698	11,673	600	33,507	--	94,205	--	--	8,713	--	
JOSEPHINE	94,041	65,736	2,667	200	--	17,657	--	--	7,781	--	
TOTAL	773,916	485,719	23,901	38,551	246	127,896	4,110	22,156	70,896	312	1
CENTRAL:											
CROOK	77,403	4,593	287	949	237	67,541	3,559	--	237	--	
DESCHUTES AND JEFFERSON 1/	155,485	1,683	--	421	--	135,768	11,300	--	6,313	--	
KLAMATH	317,210	5,507	2,107	4,000	--	258,336	39,557	--	7,703	--	
LAKE	62,372	--	--	9,489	--	49,911	1,736	--	1,236	--	
WASCO	53,936	28,924	2,904	--	--	22,108	--	--	--	--	
TOTAL	666,406	40,707	5,298	14,859	237	533,664	56,152	--	15,489	--	
BLUE MOUNTAIN:											
BAKER AND WALLOWA 1/	101,870	18,057	4,800	1,689	4,800	60,750	11,000	--	774	--	
GRANT AND HARNEY 1/	117,400	4,875	--	4,075	175	106,150	1,600	--	525	--	
MORROW AND UMATILLA 1/	110,475	29,986	5,098	3,150	--	60,914	11,327	--	--	--	
UNION	90,406	18,917	--	24,776	4,601	36,102	6,010	--	--	--	
TOTAL	420,151	71,835	9,898	33,690	9,576	263,916	29,937	--	1,299	--	
ALL AREAS	3,410,855	1,708,831	323,830	114,012	15,151	925,951	90,255	108,968	90,348	26,580	6,9

1/Combined to avoid disclosure.

Table 27—Production and disposition of wood and bark residue by sawmills, by resource area and mill-size class, Oregon, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL RESIDUE			WOOD RESIDUE			BARK RESIDUE		
	TOTAL	USED 2/	UNUSED	TOTAL	USED 2/	UNUSED	TOTAL	USED 2/	UNUSED
NORTHWEST:									
D	21,479	21,442	37	16,116	16,095	21	5,363	5,347	16
C	69,424	69,424	--	52,953	52,953	--	16,471	16,471	--
B	190,562	190,562	--	153,064	153,064	--	37,498	37,498	--
A	776,436	773,166	3,270	607,750	604,944	2,806	168,686	168,222	464
TOTAL	1,057,901	1,054,594	3,307	829,883	827,056	2,827	228,018	227,538	480
WEST-CENTRAL:									
D AND C 3/	152,805	152,805	--	121,879	121,879	--	30,926	30,926	--
B	232,003	231,931	72	180,664	180,606	58	51,339	51,325	14
A	1,116,340	1,116,340	--	880,853	880,853	--	235,487	235,487	--
TOTAL	1,501,148	1,501,076	72	1,183,396	1,183,338	58	317,752	317,738	14
SOUTHWEST:									
D	4,276	4,041	235	3,158	2,988	170	1,118	1,053	65
C	52,481	52,481	--	43,217	43,217	--	9,264	9,264	--
B	217,996	217,996	--	170,418	170,418	--	47,578	47,578	--
A	944,800	944,800	--	750,305	750,305	--	194,495	194,495	--
TOTAL	1,219,553	1,219,318	235	967,098	966,928	170	252,455	252,390	65
CENTRAL:									
D AND C 3/	71,424	66,466	4,958	57,523	53,829	3,694	13,901	12,637	1,264
B	227,098	224,632	2,466	183,502	182,712	790	43,596	41,920	1,676
A	625,414	625,414	--	505,521	505,521	--	119,893	119,893	—
TOTAL	923,936	916,512	7,424	746,546	742,062	4,484	177,390	174,450	2,940
BLUE MOUNTAIN:									
D	5,979	3,564	2,415	4,678	2,801	1,877	1,301	763	538
C	80,277	80,131	146	63,769	63,691	78	16,508	16,440	68
B	87,522	87,522	--	70,855	70,855	--	16,667	16,667	--
A	432,628	432,628	--	355,033	355,033	--	77,595	77,595	--
TOTAL	606,406	603,845	2,561	494,335	492,380	1,955	112,071	111,465	606
ALL AREAS:									
D	31,734	29,047	2,687	23,952	21,884	2,068	7,782	7,163	619
C	426,411	421,307	5,104	339,341	335,569	3,772	87,070	85,738	1,332
B	955,181	952,643	2,538	758,503	757,655	848	196,678	194,988	1,690
A	3,895,618	3,892,348	3,270	3,099,462	3,096,656	2,806	796,156	795,692	464
TOTAL	5,308,944	5,295,345	13,599	4,221,258	4,211,764	9,494	1,087,686	1,083,581	4,105

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Residues are not necessarily used in the area in which they are produced.

3/Combined to avoid disclosure.

Table 28—Production and disposition of wood residue by sawmills, by type of residue, use, resource are and mill-size class, Oregon, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL TYPES OF RESIDUE							COARSE RESIDUE 3/					
	TOTAL	USED 2/					UNUSED	TOTAL	USED 2/				
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS			TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS
NORTHWEST:													
D	16,116	16,095	[illegible],619	4	3,624	3,848	21	10,771	10,771	8,228	--	1,869	674
C	52,953	52,953	25,824	12,805	13,980	344	--	33,022	33,022	24,204	5,007	3,811	--
B	153,064	153,064	75,684	23,424	42,151	11,805	--	89,191	89,191	63,210	--	20,026	5,955
A	607,750	604,944	348,221	158,911	66,670	31,142	2,806	349,943	347,137	261,507	46,955	35,787	2,888
TOTAL	829,883	827,056	458,348	195,144	126,425	47,139	2,827	482,927	480,121	357,149	51,962	61,493	9,517
WEST-CENTRAL:													
D AND C 4/	121,879	121,879	64,760	15,380	40,661	1,078	--	71,333	71,333	54,943	--	15,312	1,078
B	180,664	180,606	131,092	39,586	7,517	2,411	58	104,911	104,853	103,698	[illegible],068	87	--
A	880,853	880,853	529,669	189,521	154,937	6,726	--	511,350	511,350	467,520	--	43,830	--
TOTAL	1,183,396	1,183,338	725,521	244,487	203,115	10,215	58	687,594	687,536	626,161	1,068	59,229	1,078
SOUTHWEST:													
D	3,158	2,988	1,888	—	937	163	170	2,245	2,123	1,888	--	235	--
C	43,217	43,217	24,705	12,154	6,358	--	--	24,457	24,457	24,457	--	--	--
B	170,418	170,418	34,636	46,189	89,593	--	--	97,183	97,183	34,636	--	62,547	--
A	750,305	750,305	403,589	189,041	149,970	7,705	—	425,599	425,599	364,400	--	59,478	1,721
TOTAL	967,098	966,928	464,818	247,384	246,858	7,868	170	549,484	549,362	425,381	--	122,260	1,721
CENTRAL:													
D AND C 4/	57,523	53,829	9,873	5,857	29,624	[illegible],475	3,694	31,461	30,746	7,395	--	16,328	7,023
B	183,502	182,712	62,809	14,442	93,595	11,866	790	98,665	98,231	59,740	--	30,627	7,864
A	505,521	505,521	103,822	169,679	221,174	10,846	--	271,336	271,336	99,754	100,035	71,547	--
TOTAL	746,546	742,062	176,504	189,978	344,393	31,187	4,484	401,462	400,313	166,889	100,035	118,502	14,887
BLUE MOUNTAIN:													
D	4,678	2,801	--	--	1,855	946	1,877	2,942	1,868	--	--	1,855	13
C	63,769	63,691	20,608	18,216	24,867	—	78	37,359	37,359	20,608	7,224	9,527	--
B	70,855	70,855	39,675	5,280	25,900	--	--	37,720	37,720	23,220	--	14,500	--
A	355,033	355,033	87,933	59,416	207,684	--	--	181,662	181,662	87,933	1,111	92,618	—
TOTAL	494,335	492,380	148,216	82,912	260,306	946	1,955	259,683	258,609	131,761	8,335	118,500	13
ALL AREAS:													
D	23,952	21,884	10,507	4	6,416	4,957	2,068	15,958	14,762	10,116	—	3,959	687
C	339,341	335,569	145,770	64,412	115,490	9,897	3,772	197,632	196,917	131,607	12,231	44,978	[illegible],101
B	758,503	757,655	343,896	128,921	258,756	26,082	848	427,670	427,178	284,504	[illegible],068	127,787	13,819
A	3,099,462	3,096,656	1,473,234	766,568	800,435	56,419	2,806	1,739,890	1,737,084	1,281,114	148,101	303,260	4,609
TOTAL	4,221,258	4,211,764	1,973,407	959,905	1,181,097	97,355	9,494	2,381,150	2,375,941	1,707,341	161,400	479,984	27,216

See footnotes at end of table

Table 28—Production and disposition of wood residue by sawmills, by type of residue, use, resource area, and mill-size class, Oregon, 1982 (continued)

(TONS, DRY WEIGHT)

RESOURCE AREA AND MILL-SIZE CLASS 1/	SHAVINGS							SAWDUST						
	TOTAL	USED 2/					UNUSED	TOTAL	USED 2/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS			TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTHWEST:														
D	1,076	1,076	--	4	210	862	--	4,269	4,248	391	--	1,545	2,312	21
C	6,502	6,502	--	3,694	2,692	116	--	13,429	13,429	1,620	4,104	7,477	228	--
B	27,316	27,316	7,446	10,219	6,242	3,409	--	36,557	36,557	5,028	13,205	15,883	2,441	--
A	114,377	114,377	18,633	63,665	5,067	27,012	--	143,430	143,430	68,081	48,291	25,816	1,242	--
TOTAL	149,271	149,271	26,079	77,582	14,211	31,399	-	197,685	197,664	75,120	65,600	50,721	6,223	21
WEST-CENTRAL:														
D AND C 4/	21,605	21,605	--	13,411	8,194	--	--	28,941	28,941	9,817	1,969	17,155	--	--
B	32,751	32,751	1,188	28,147	1,005	2,411	--	43,002	43,002	26,206	10,371	6,425	--	--
A	159,918	159,918	13,176	120,836	21,684	4,222	--	209,585	209,585	48,973	60,685	87,423	4,504	--
TOTAL	214,274	214,274	14,364	162,394	32,883	4,633	--	281,528	281,528	84,996	81,025	111,003	4,504	--
SOUTHWEST														
D	--	--	--	--	--	--	--	913	865	--	--	702	163	48
C	8,736	8,736	248	5,896	2,592	--	--	10,024	10,024	--	6,258	3,766	--	--
B	33,402	33,402	--	25,126	8,276	--	--	39,833	39,833	--	21,063	18,770	--	--
A	140,373	140,373	--	120,122	14,619	5,632	--	184,333	184,333	39,189	68,919	75,873	352	--
TOTAL	182,511	182,511	248	151,144	25,487	5,632	--	235,103	235,055	39,189	96,240	99,111	515	48
CENTRAL:														
D AND C 4/	9,966	9,915	2,478	5,060	925	1,452	51	16,096	13,168	--	797	12,371	--	2,928
B	34,358	34,358	3,069	13,746	14,237	3,306	--	50,479	50,123	--	696	48,731	696	356
A	95,361	95,361	4,068	69,644	10,803	10,846	--	138,824	138,824	--	--	138,824	--	--
TOTAL	139,685	139,634	9,615	88,450	25,965	15,604	51	205,399	202,115	--	1,493	199,926	696	3,284
BLUE MOUNTAIN:														
D	230	32	--	--	--	32	198	1,506	901	--	--	--	901	605
C	7,296	7,296	--	7,296	--	--	--	19,114	19,036	--	3,696	15,340	--	78
B	13,837	13,837	3,757	5,280	4,800	--	--	19,298	19,298	12,698	--	6,600	--	--
A	72,577	72,577	--	58,305	14,272	--	--	100,794	100,794	--	--	100,794	--	--
TOTAL	93,940	93,742	3,757	70,881	19,072	32	198	140,712	140,029	12,698	3,696	122,734	901	683
ALL AREAS:														
D	1,306	1,108	--	4	210	894	198	6,688	6,014	391	--	2,247	3,376	674
C	54,105	54,054	2,726	35,357	14,403	1,568	51	87,604	84,598	11,437	16,824	56,109	228	3,006
B	141,664	141,664	15,460	82,518	34,550	9,136	--	189,169	189,813	43,932	45,335	96,409	3,137	356
A	582,606	582,606	35,877	432,572	68,445	45,712	--	776,966	776,966	156,243	185,895	428,730	6,098	--
TOTAL	779,681	779,432	54,063	550,451	117,618	57,300	249	1,060,427	1,056,391	212,003	248,054	583,495	12,839	4,036

1/ Class D mills - less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/ Residues are not necessarily used in the area in which they are produced.

3/ Includes slabs, edgings, trim, and spur ends.

4/ Combined to avoid disclosure.

Table 29—Production and disposition of bark residue by sawmills, by use, resource area, and mill-size class Oregon, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL BARK	USED 2/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTHWEST:							
D	5,363	5,347	--	--	3,381	1,966	16
C	16,471	16,471	--	--	14,510	1,961	--
B	37,498	37,498	77	--	22,769	14,652	--
A	168,686	168,222	5,573	--	112,744	49,905	464
TOTAL	228,018	227,538	5,650	--	153,404	68,484	480
WEST-CENTRAL:							
D AND C 3/	30,926	30,926	--	--	30,926	--	--
B	51,339	51,325	--	--	51,325	--	14
A	235,487	235,487	--	--	225,138	10,349	--
TOTAL	317,752	317,738	--	--	307,389	10,349	14
SOUTHWEST:							
D	1,118	1,053	--	--	1,053	--	65
C	9,264	9,264	--	--	5,136	4,128	--
B	47,578	47,578	--	--	47,578	--	--
A	194,495	194,495	--	--	193,654	841	--
TOTAL	252,455	252,390	--	--	247,421	4,969	65
CENTRAL:							
D AND C 3/	13,901	12,637	--	--	12,637	--	1,264
B	43,596	41,920	--	--	41,920	--	1,676
A	119,893	119,893	--	--	77,482	42,411	--
TOTAL	177,390	174,450	--	--	132,039	42,411	2,940
BLUE MOUNTAIN:							
D	1,301	763	--	--	747	16	538
C	16,508	16,440	--	--	15,368	1,072	68
B	16,667	16,667	--	--	13,589	3,078	--
A	77,595	77,595	--	--	77,595	--	--
TOTAL	112,071	111,465	--	--	107,299	4,166	606
ALL AREAS:							
D	7,782	7,163	--	--	5,181	1,982	619
C	87,070	85,738	--	--	78,577	7,161	1,332
B	196,678	194,988	77	--	177,181	17,730	1,690
A	796,156	795,692	5,573	--	686,613	103,506	464
TOTAL	1,087,686	1,083,581	5,650	--	947,552	130,379	4,105

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Residues are not necessarily used in the area in which they are produced.

3/Combined to avoid disclosure.

Table 30—Production and disposition of wood and bark residue by sawmills, by resource area and county, Oregon, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND COUNTY	ALL RESIDUE			WOOD RESIDUE			BARK RESIDUE		
	TOTAL	USED 1/	UNUSED	TOTAL	USED 1/	UNUSED	TOTAL	USED 1/	UNUSED
NORTHWEST:									
CLACKAMAS	298,952	296,133	2,819	229,837	227,031	2,806	69,115	69,102	13
CLATSOP	5,827	5,363	464	4,343	4,343	--	1,484	1,020	464
COLUMBIA	73,760	73,741	19	60,034	60,015	19	13,726	13,726	--
HOOD RIVER AND MULTNOMAH 2/	97,177	97,177	--	77,762	77,762	--	19,415	19,415	--
MARION	87,275	87,275	--	71,022	71,022	--	16,253	16,253	--
POLK	146,981	146,981	--	113,950	113,950	--	33,031	33,031	--
TILLAMOOK	75,959	75,959	--	59,617	59,617	--	16,342	16,342	--
WASHINGTON	130,311	130,306	5	101,724	101,722	2	28,587	28,584	3
YAMHILL	141,659	141,659	--	111,594	111,594	--	30,065	30,065	--
TOTAL	1,057,901	1,054,594	3,307	829,883	827,056	2,827	228,018	227,538	480
WEST-CENTRAL:									
BENTON AND LINCOLN 2/	174,292	174,220	72	135,981	135,923	58	38,311	38,297	14
LANE	1,026,110	1,026,110	--	800,683	800,683	--	225,427	225,427	--
LINN	300,746	300,746	--	246,732	246,732	--	54,014	54,014	--
TOTAL	1,501,148	1,501,076	72	1,183,396	1,183,338	58	317,752	317,738	14
SOUTHWEST:									
COOS AND CURRY 2/	321,763	321,528	235	251,598	251,428	170	70,165	70,100	65
DOUGLAS	491,572	491,572	--	390,049	390,049	--	101,523	101,523	--
JACKSON	254,247	254,247	--	207,289	207,289	--	46,958	46,958	--
JOSEPHINE	151,971	151,971	--	118,162	118,162	--	33,809	33,809	--
TOTAL	1,219,553	1,219,318	235	967,098	966,928	170	252,455	252,390	65
CENTRAL:									
CROOK	101,868	101,868	--	82,390	82,390	--	19,478	19,478	--
DESCHUTES AND JEFFERSON 2/	217,902	217,902	--	176,477	176,477	--	41,425	41,425	--
KLAMATH	434,046	434,046	--	350,555	350,555	--	83,491	83,491	--
LAKE	85,648	79,900	5,748	69,221	64,737	4,484	16,427	15,163	1,264
WASCO	84,472	82,796	1,676	67,903	67,903	--	16,569	14,893	1,676
TOTAL	923,936	916,512	7,424	746,546	742,062	4,484	177,390	174,450	2,940
BLUE MOUNTAIN:									
BAKER AND WALLOWA 2/	129,145	128,819	326	103,287	103,075	212	25,858	25,744	114
GRANT AND HARNEY 2/	160,200	160,200	--	129,762	129,762	--	30,438	30,438	--
MORROW AND UMATILLA 2/	162,279	162,279	--	131,219	131,219	--	31,060	31,060	--
UNION	154,782	152,547	2,235	130,067	128,324	1,743	24,715	24,223	492
TOTAL	606,406	603,845	2,561	494,335	492,380	1,955	112,071	111,465	606
ALL AREAS	5,308,944	5,295,345	13,599	4,221,258	4,211,764	9,494	1,087,686	1,083,581	4,105

1/Residues are not necessarily used in the area or county in which they are produced.

2/Combined to avoid disclosure.

Table 31—Production and disposition of wood residue by sawmills, by type of residue, use, resource area, and county, Oregon, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND COUNTY	ALL TYPES OF RESIDUE							COARSE RESIDUE 2/					
	TOTAL	USED 1/					UNUSED	TOTAL	USED 1/				
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS			TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS
NORTHWEST:													
CLACKAMAS	229,837	227,031	127,906	24,574	71,876	2,675	2,806	141,174	138,368	91,986	--	46,382	--
CLATSOP	4,343	4,343	3,344	--	999	--	--	2,943	2,943	2,372	--	571	--
COLUMBIA	60,034	60,015	50,589	9,111	237	78	19	34,573	34,573	29,329	5,007	237	--
HOOD RIVER AND MULTNOMAH 3/	77,762	77,762	50,751	5,719	4,514	16,778	--	42,926	42,926	36,692	--	--	6,234
MARION	71,022	71,022	43,581	19,030	8,067	344	--	41,905	41,905	38,737	--	3,168	--
POLK	113,950	113,950	58,106	21,674	34,170	--	--	65,795	65,795	57,274	--	8,521	--
TILLAMOOK	59,617	59,617	33,526	25,884	62	145	--	33,135	33,135	33,135	--	--	--
WASHINGTON	101,724	101,722	6,213	87,852	3,124	4,533	2	56,391	56,391	6,213	48,955	2,614	2,609
YAMHILL	111,594	111,594	84,332	1,300	3,376	22,586	--	62,085	62,085	61,411	--	--	674
TOTAL	829,883	827,056	458,348	195,144	126,425	47,139	2,827	482,927	480,121	357,149	53,962	61,493	9,517
WEST-CENTRAL:													
BENTON AND LINCOLN 3/	135,981	135,923	92,405	27,991	12,038	3,489	58	78,093	78,035	76,870	--	87	1,078
LANE	800,683	800,683	472,980	179,415	141,562	6,726	--	470,460	470,460	415,722	1,068	53,670	--
LINN	246,732	246,732	160,136	37,081	49,515	--	--	139,041	139,041	133,569	--	5,472	--
TOTAL	1,183,396	1,183,338	725,521	244,487	203,115	10,215	58	687,594	687,536	626,161	1,068	59,229	1,078
SOUTHWEST:													
COOS AND CURRY 3/	251,598	251,428	171,585	46,328	33,352	163	170	148,520	148,398	132,396	--	16,002	--
DOUGLAS	390,049	390,049	200,663	118,430	64,113	6,843	--	215,032	215,032	200,415	--	13,756	859
JACKSON	207,289	207,289	54,838	59,026	93,425	--	--	116,871	116,871	54,838	--	62,033	--
JOSEPHINE	118,162	118,162	37,732	23,600	55,968	862	--	69,061	69,061	37,732	--	30,467	862
TOTAL	967,098	966,928	464,818	247,384	246,858	7,868	170	549,484	549,362	425,381	--	122,260	1,721
CENTRAL:													
CROOK	82,390	82,390	29,739	5,857	39,588	7,206	--	44,083	44,083	22,602	--	15,727	5,754
DESCHUTES AND JEFFERSON 3/	176,477	176,477	40,733	26,496	105,942	3,306	--	93,750	93,750	40,733	--	53,017	--
KLAMATH	350,555	350,555	60,341	143,040	133,591	13,583	--	188,954	188,954	60,341	100,035	26,527	2,041
LAKE	69,221	64,737	13,206	5,508	38,931	7,092	4,484	37,175	36,026	10,726	--	18,206	7,092
WASCO	67,903	67,903	32,485	9,077	26,341	--	--	37,500	37,500	32,485	--	5,015	--
TOTAL	746,546	742,062	176,504	189,978	344,393	31,187	4,484	401,462	400,313	166,889	100,035	118,502	14,887
BLUE MOUNTAIN:													
BAKER AND WALLOWA 3/	103,287	103,075	41,017	21,099	40,050	909	212	58,519	58,467	31,822	7,224	19,408	13
GRANT AND HARNEY 3/	129,762	129,762	43,043	7,392	79,327	--	--	68,886	68,886	40,403	--	28,483	--
MORROW AND UMATILLA 3/	131,219	131,219	37,703	24,964	68,552	--	--	70,291	70,291	33,083	--	37,208	--
UNION	130,067	128,324	26,453	29,457	72,377	37	1,743	61,987	60,965	26,453	1,111	33,401	--
TOTAL	494,335	492,380	148,216	82,912	260,306	946	1,955	259,683	258,609	131,761	8,335	118,500	13
ALL AREAS	4,221,258	4,211,764	1,973,407	959,905	1,181,097	97,355	9,494	2,381,150	2,375,941	1,707,341	161,400	479,984	27,216

See footnotes at end of table

le 31—Production and disposition of wood residue by sawmills, by type of residue, use, resource area, county, Oregon, 1982 (continued)

(TONS, DRY WEIGHT)

CE AREA UNTY	SHAVINGS							SAWDUST						
	TOTAL	USED 1/					UNUSED	TOTAL	USED 1/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS			TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
EST:														
KAMAS	30,802	30,802	5,627	15,259	9,054	862	--	57,861	57,861	30,294	9,315	16,440	1,813	--
SOP	209	209	--	--	209	--	--	1,191	1,191	972	--	219	--	--
MBIA	11,291	11,291	9,239	2,052	--	--	--	14,170	14,151	12,021	2,052	--	78	19
RIVER AND														
TNAMAH 3/	17,242	17,242	7,061	--	2,139	8,103	--	1,534	17,534	7,058	5,719	2,317	2,441	-
ON	12,947	12,947	4,212	7,690	29	116	--	17,071	17,071	632	11,940	4,870	229	--
	21,276	21,276	--	14,795	1,481	--	--	25,879	25,879	832	1,579	23,468	-	-
AMOOK	12,942	12,942	--	12,942	--	--	--	13,540	13,540	391	12,942	62	145	-
NGTON	19,400	19,400	--	18,544	1	855		23,933	23,931	--	22,353	567	1,009	2
LL	24,062	24,062	--	1,300	1,299	21,463	--	25,447	25,447	22,921	--	2,077	449	--
TAL	144,221	144,221	26,079	77,531	14,211	31,399	--	197,664	197,664	75,120	65,860	50,721	6,223	21
NTRAL														
ON AND LINCOLN 3/	25,912	25,912	1,188	21,838	1,486	2,411	--	31,976	31,976	14,347	7,162	10,467	-	--
	137,666	137,666	--	113,426	22,012	2,228	-	192,563	142,563	57,258	64,921	65,886	4,504	--
	56,756	56,756	13,176	21,193	9,387	-	--	56,989	56,989	13,391	8,942	34,656	--	--
TAL	214,274	214,274	14,364	162,394	32,885	4,639	-	281,528	281,528	84,996	81,025	111,009	4,504	--
ST:														
AND CURRY 3/	42,308	42,308	--	41,019	1,149	-	-	60,870	60,822	39,189	6,258	15,212	163	48
AS	76,992	76,992	248	65,482	5,030	6,232	-	98,025	98,025	--	52,948	44,725	352	--
ON	42,516	42,516	--	31,648	10,868	--	--	47,902	47,902	--	27,378	20,524	--	--
MINE	20,795	20,795	--	13,944	6,851	--	-	28,306	28,306	--	9,656	18,650	--	--
TAL	182,611	182,611	248	151,144	25,487	5,632	--	235,103	235,055	39,189	96,240	99,111	515	48
	15,753	15,753	7,137	5,080	2,104	1,452	--	22,554	22,554	--	797	21,757	--	-
UTES AND														
ERSON 3/	34,762	34,762	--	26,406	4,960	3,396	—	47,965	47,965	--	--	47,965	--	--
FH	64,926	64,926	--	42,309	11,771	10,846	--	95,675	96,675	--	696	95,283	696	--
	13,000	12,975	2,478	5,508	4,989	--	51	19,020	15,736	--	--	15,736	--	3,284
	11,218	11,218	--	9,077	2,141	--	--	19,185	19,185	--	--	19,185	--	--
TAL	139,685	139,634	9,615	88,450	25,965	15,604	51	205,399	202,115	--	1,493	199,926	696	3,284
UNTAIN:														
AND WALLOWA 3/	14,828	14,749	3,757	10,179	832	31	29	29,940	29,809	5,438	3,696	19,810	865	131
AND HARNEY 3/	25,632	25,632	--	7,392	18,240	--	--	35,244	35,244	2,640	--	32,604	--	--
AND														
LLA 3/	24,964	24,964	--	24,964	--	--	--	35,964	35,964	4,620	--	31,344	--	--
	28,516	28,347	--	28,346	--	1	169	39,564	39,012	--	--	38,976	36	552
AL	93,940	93,742	3,757	70,881	19,072	32	198	140,712	140,029	12,698	3,696	122,734	901	683
AS	779,681	779,432	54,063	550,451	117,618	57,300	249	1,060,427	1,056,391	212,003	248,054	583,495	12,839	4,036

ties are not necessarily used in the area or county in which they are produced.

er residue includes slabs, edgings, trim, and spur ends.

ted to avoid disclosure.

Table 32—Production and disposition of bark residue by sawmills, by use, resource area, and county, Oregon, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND COUNTY	ALL BARK	USED 1/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTHWEST:							
CLACKAMAS	69,115	69,102	--	--	45,166	23,936	13
CLATSOP	1,484	1,020	--	--	1,020	--	464
COLUMBIA	13,726	13,726	5,573	--	8,130	23	--
HOOD RIVER AND MULTNOMAH 2/	19,415	19,415	--	--	12,401	7,014	--
MARION	16,253	16,253	77	--	7,765	8,411	--
POLK	33,031	33,031	--	--	22,318	10,713	--
TILLAMOOK	16,342	16,342	--	--	16,342	--	--
WASHINGTON	28,587	28,584	--	--	25,542	3,042	3
YAMHILL	30,065	30,065	--	--	14,720	15,345	--
TOTAL	228,018	227,538	5,650	--	153,404	68,484	480
WEST-CENTRAL:							
BENTON AND LINCOLN 2/	38,311	38,297	--	--	38,297	--	14
LANE	225,427	225,427	--	--	217,885	7,542	--
LINN	54,014	54,014	--	--	51,207	2,807	--
TOTAL	317,752	317,738	--	--	307,389	10,349	14
SOUTHWEST:							
COOS AND CURRY 2/	70,165	70,100	--	--	70,100	--	65
DOUGLAS	101,523	101,523	--	--	100,682	841	--
JACKSON	46,958	46,958	--	--	42,830	4,128	--
JOSEPHINE	33,809	33,809	--	--	33,809	--	--
TOTAL	252,455	252,390	--	--	247,421	4,969	65
CENTRAL:							
CROOK	19,478	19,478	--	--	19,478	--	--
DESCHUTES AND JEFFERSON 2/	41,425	41,425	--	--	9,961	31,464	--
KLAMATH	83,491	83,491	--	--	72,544	10,947	--
LAKE	16,427	15,163	--	--	15,163	--	1,264
WASCO	16,569	14,893	--	--	14,893	--	1,676
TOTAL	177,390	174,450	--	--	132,039	42,411	2,940
BLUE MOUNTAIN:							
BAKER AND WALLOWA 2/	25,858	25,744	--	--	25,738	6	114
GRANT AND HARNEY 2/	30,438	30,438	--	--	28,158	2,280	--
MORROW AND UMATILLA 2/	31,060	31,060	--	--	29,190	1,870	--
UNION	24,715	24,223	--	--	24,213	10	492
TOTAL	112,071	111,465	--	--	107,299	4,166	606
ALL AREAS	1,087,686	1,083,581	5,650	--	947,552	130,379	4,105

1/Residues are not necessarily used in the area or county in which they are produced.

2/Combined to avoid disclosure.

Table 33—Lumber production by sawmills, by degree of manufacture, resource area, and mill-size class, Oregon, 1982

(THOUSAND BOARD FEET, LUMBER TALLY)

RESOURCE AREA AND MILL-SIZE CLASS 1/	GREEN	KILN-DRIED	AIR-DRIED	TOTAL 2/	ROUGH	SURFACED
NORTHWEST:						
D	16,878	2,230	75	19,183	14,217	4,966
C	59,183	2,560	--	61,743	31,659	30,084
B	147,052	16,690	5,500	169,242	42,776	126,466
A	445,150	213,414	5,462	664,026	134,503	529,523
TOTAL	668,263	234,894	11,037	914,194	223,155	691,039
WEST-CENTRAL:						
D AND C 3/	106,296	26,488	--	132,784	32,874	99,910
B	184,497	9,981	4,613	199,091	47,469	151,622
A	572,987	366,505	30,812	970,304	229,941	740,363
TOTAL	863,780	402,974	35,425	1,302,179	310,284	991,895
SOUTHWEST:						
D	4,143	44	14	4,201	4,201	--
C	18,379	26,400	1,629	46,408	5,964	40,444
B	55,491	115,011	13,908	184,410	29,767	154,643
A	644,432	173,274	35,693	853,399	203,519	649,880
TOTAL	722,445	314,729	51,244	1,088,418	243,451	844,967
CENTRAL:						
D AND C 3/	995	50,430	9,545	60,970	9,064	51,906
B	24,428	152,105	14,677	191,210	12,265	178,945
A	30,509	493,897	1,440	525,846	29,174	496,672
TOTAL	55,932	696,432	25,662	778,026	50,503	727,523
BLUE MOUNTAIN:						
D	2,421	--	3,282	5,703	4,507	1,196
C	10,396	57,306	4,700	72,402	34,402	38,000
B	29,570	42,500	1,030	73,100	1,030	72,070
A	9,420	372,370	--	381,790	3,785	378,005
TOTAL	51,807	472,176	9,012	532,995	43,724	489,271
ALL AREAS:						
D	23,442	2,274	3,371	29,087	22,925	6,162
C	195,249	163,184	15,874	374,307	113,963	260,344
B	441,038	336,287	39,728	817,053	133,307	683,746
A	1,702,498	1,619,460	73,407	3,395,365	600,922	2,794,443
TOTAL	2,362,227	2,121,205	132,380	4,615,812	871,117	3,744,695

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Total of "Green," "Kiln-dried," and "Air-dried"; also, total of "Rough" and "Surfaced."

3/Combined to avoid disclosure.

Table 34—Lumber production by sawmills, by type of headrig, resource area, and mill-size class, Oregon, 1982

(THOUSAND BOARD FEET, LUMBER TALLY)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL TYPES	CIRCULAR SAW	BAND SAW	GANG SAW	CHIPPING SAW	SCRAGG DOUBLE-CUT SAW
NORTHWEST:						
D	19,183	17,454	1,279	--	--	450
C	61,743	16,100	45,643	--	--	--
B	169,242	3,100	118,542	--	31,400	16,200
A	664,026	5,100	622,574	3,209	--	33,143
TOTAL	914,194	41,754	788,038	3,209	31,400	49,793
WEST-CENTRAL:						
D AND C 2/	132,784	1,087	101,139	1,088	4,525	24,945
B	199,091	13,297	147,074	3,720	35,000	--
A	970,304	--	771,083	36,600	92,124	70,497
TOTAL	1,302,179	14,384	1,019,296	41,408	131,649	95,442
SOUTHWEST:						
D	4,201	441	3,760	--	--	--
C	46,408	--	31,408	--	15,000	--
B	184,410	--	177,510	--	6,900	--
A	853,399	14,888	791,727	5,970	32,225	8,589
TOTAL	1,088,418	15,329	1,004,405	5,970	54,125	8,589
CENTRAL:						
D AND C 2/	60,970	200	60,770	--	--	--
B	191,210	--	182,710	--	8,500	--
A	525,846	--	525,846	--	--	--
TOTAL	778,026	200	769,326	--	8,500	--
BLUE MOUNTAIN:						
D	5,703	5,703	--	--	--	--
C	72,402	--	67,702	--	--	4,700
B	73,100	20,600	52,500	--	--	--
A	381,790	--	268,019	97,214	8,800	7,757
TOTAL	532,995	26,303	388,221	97,214	8,800	12,457
ALL AREAS:						
D	29,087	23,598	5,039	--	--	450
C	374,307	17,387	306,662	1,088	19,525	29,645
B	817,053	36,997	678,336	3,720	81,800	16,200
A	3,395,365	19,988	2,979,249	142,993	133,149	119,986
TOTAL	4,615,812	97,970	3,969,286	147,801	234,474	166,281

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Combined to avoid disclosure.

Table 35—Lumber production by sawmills, by type of headrig, resource area, and county, Oregon, 1982

(THOUSAND BOARD FEET, LUMBER TALLY)

RESOURCE AREA AND COUNTY	ALL TYPES	CIRCULAR SAW	BAND SAW	GANG SAW	CHIPPING SAW	SCRAGG DOUBLE-CUT SAW
NORTHWEST:						
CLACKAMAS	267,876	8,395	244,281	--	15,200	--
CLATSOP AND COLUMBIA 1/	71,052	16,001	26,151	--	--	28,900
HOOD RIVER AND MULTNOMAH 1/	81,454	3,100	63,954	--	--	14,400
MARION	78,600	6,600	54,000	--	16,200	1,800
POLK	124,089	5,048	114,348	--	--	4,693
TILLAMOOK	62,515	2,600	59,915	--	--	--
WASHINGTON	110,800	10	110,790	--	--	--
YAMHILL	117,808	--	114,599	3,209	--	--
TOTAL	914,194	41,754	788,038	3,209	31,400	49,793
WEST-CENTRAL:						
BENTON AND LINCOLN 1/	147,902	14,384	128,710	4,808	--	--
LANE	890,440	--	765,789	--	114,215	10,436
LINN	263,837	--	124,797	36,600	17,434	85,006
TOTAL	1,302,179	14,384	1,019,296	41,408	131,649	95,442
SOUTHWEST:						
COOS AND CURRY 1/	281,795	215	265,991	--	15,000	589
DOUGLAS	453,810	12,226	408,705	5,970	18,909	8,000
JACKSON	221,768	2,888	198,664	--	20,216	--
JOSEPHINE	131,045	--	131,045	--	--	--
TOTAL	1,088,418	15,329	1,004,405	5,970	54,125	8,589
CENTRAL:						
CROOK	85,431	--	76,931	--	8,500	--
DESCHUTES AND JEFFERSON 1/	181,686	200	181,486	--	--	--
KLAMATH	366,191	--	366,191	--	--	--
LAKE	72,045	--	72,045	--	--	--
WASCO	72,673	--	72,673	--	--	--
TOTAL	778,026	200	769,326	--	8,500	--
BLUE MOUNTAIN:						
BAKER AND WALLOWA 1/	113,409	24,075	81,577	--	--	7,757
GRANT AND HARNEY 1/	133,500	--	133,500	--	--	--
MORROW AND UMATILLA 1/	136,223	--	122,723	--	8,800	4,700
UNION	149,863	2,228	50,421	97,214	--	--
TOTAL	532,995	26,303	388,221	97,214	8,800	12,457
ALL AREAS	4,615,812	97,970	3,969,286	147,801	234,474	166,281

1/Combined to avoid disclosure.

Table 36—Number of veneer and plywood mills by type of mill, resource area, and county, Oregon, 1982

RESOURCE AREA AND COUNTY	ALL TYPES	VENEER MILL	LAYUP MILL	VENEER AND LAYUP MILL
NORTHWEST:				
CLATSOP	1	--	--	1
COLUMBIA	2	1	--	1
MARION	3	2	1	--
MULTNOMAH	1	1	--	--
POLK	4	3	--	1
YAMHILL	1	1	--	--
TOTAL	12	8	1	3
WEST-CENTRAL:				
BENTON	2	1	1	--
LANE	23	13	4	6
LINCOLN	3	2	--	1
LINN	11	2	2	7
TOTAL	39	18	7	14
SOUTHWEST:				
COOS	9	5	--	4
CURRY	2	--	--	2
DOUGLAS	15	7	3	5
JACKSON	10	4	3	3
JOSEPHINE	6	--	5	1
TOTAL	42	16	11	15
CENTRAL:				
DESCHUTES	1	--	--	1
JEFFERSON	1	--	--	1
KLAMATH	4	2	--	2
TOTAL	6	2	--	4
BLUE MOUNTAIN:				
BAKER	1	1	--	--
UNION	1	--	--	1
TOTAL	2	1	--	1
ALL AREAS	101	45	19	37

Table 37—Installed 8-hour capacity of veneer and plywood mills by type of mill, resource area, and county, Oregon, 1982

(THOUSAND SQUARE FEET, 3/8-INCH BASIS)

RESOURCE AREA AND COUNTY	VENEER MILL	LAYUP MILL	VENEER AND LAYUP MILL	
			VENEER	LAYUP
NORTHWEST:				
CLATSOP	--	--	115	135
COLUMBIA	250	--	100	183
MARION	540	160	--	--
MULTNOMAH	25	--	--	--
POLK	650	--	194	310
YAMHILL	250	--	--	--
TOTAL	1,715	160	409	628
WEST-CENTRAL:				
BENTON	190	430	--	--
LANE	2,660	785	1,032	1,044
LINCOLN	294	--	270	270
LINN	435	335	1,225	1,194
TOTAL	3,579	1,550	2,527	2,508
SOUTHWEST:				
COOS	409	--	1,028	876
CURRY	--	--	290	330
DOUGLAS	1,583	588	1,208	1,180
JACKSON	835	365	1,028	995
JOSEPHINE	--	1,080	200	110
TOTAL	2,827	2,033	3,754	3,491
CENTRAL:				
DESCHUTES	--	--	220	220
JEFFERSON	--	--	200	220
KLAMATH	360	--	297	335
TOTAL	360	--	717	775
BLUE MOUNTAIN:				
BAKER	80	--	--	--
UNION	--	--	160	160
TOTAL	80	--	160	160
ALL AREAS	8,561	3,743	7,567	7,562

Table 38—Number of veneer and plywood mills by diameter limit of lathe and resource area, Oregon, 1982

RESOURCE AREA	LAYUP ONLY	DIAMETER LIMIT OF LATHE (INCHES)						
		20-29	30-39	40-49	50-59	60-69	70-79	80 PLUS
NORTHWEST	1	--	1	2	2	1	3	2
WEST-CENTRAL	7	2	1	2	1	10	7	9
SOUTHWEST	11	--	1	3	3	5	7	12
CENTRAL	--	--	2	--	2	2	--	--
BLUE MOUNTAIN	--	--	1	--	--	1	--	--
ALL AREAS	19	2	6	7	8	19	17	23

Table 39—Number of veneer and plywood mills by diameter of core produced and resource area, Oregon, 1982

RESOURCE AREA	DIAMETER OF CORES (INCHES)								NO LATHE OR CORE
	3	4	5	6	7	8	9	10	
NORTHWEST	--	--	3	7	--	--	--	--	2
WEST-CENTRAL	2	1	8	10	7	4	--	--	7
SOUTHWEST	--	5	8	14	2	2	--	--	11
CENTRAL	--	3	1	2	--	--	--	--	--
BLUE MOUNTAIN	--	--	1	--	1	--	--	--	--
ALL AREAS	2	9	21	33	10	6	--	--	20

Table 40—Number of veneer and plywood mills by selected equipment, resource area, and county, Oregon, 1982

RESOURCE AREA AND COUNTY	4-FOOT LATHE	8-FOOT LATHE	SLICER	VENEER CHIPPER	CORE CHIPPER	COLD PRESS	HOT PRESS	BURNER
NORTHWEST:								
CLATSOP	1	1	--	1	1	--	1	--
COLUMBIA	1	2	--	2	2	1	--	1
MARION	--	2	--	2	1	1	1	--
MULTNOMAH	--	--	1	--	--	--	--	--
POLK	2	4	--	4	1	--	1	3
YAMHILL	1	1	--	1	--	--	--	1
TOTAL	5	10	1	10	5	2	3	5
WEST-CENTRAL:								
BENTON	--	1	--	--	--	--	1	--
LANE	8	17	--	17	12	--	10	1
LINCOLN	3	2	--	2	2	--	1	--
LINN	4	9	--	8	1	1	9	5
TOTAL	15	29	--	27	15	1	21	6
SOUTHWEST:								
COOS	6	5	--	7	6	--	4	--
CURRY	--	2	--	2	2	--	2	--
DOUGLAS	4	12	--	10	10	1	9	--
JACKSON	5	7	--	7	7	--	6	--
JOSEPHINE	1	1	1	1	1	1	6	1
TOTAL	16	27	1	27	26	2	27	1
CENTRAL:								
DESCHUTES	1	1	1	1	1	1	1	1
JEFFERSON	--	1	--	1	--	1	1	--
KLAMATH	2	3	--	4	3	1	2	1
TOTAL	3	5	1	6	4	3	4	2
BLUE MOUNTAIN:								
BAKER	1	1	--	1	--	1	--	1
UNION	--	1	--	1	1	--	1	--
TOTAL	1	2	--	2	1	1	1	1
ALL AREAS	40	73	3	72	51	9	56	15

Table 41—Number of veneer and plywood mills by tenure of present owner, resource area, and years at present site, Oregon, 1982

RESOURCE AREA AND YEARS AT PRESENT SITE	ALL MILLS	TENURE OF PRESENT OWNER (YEARS)				
		0-2	3-5	6-10	11-20	21 PLUS
NORTHWEST:						
11-20	4	--	--	1	3	--
21 PLUS	8	1	--	--	3	4
TOTAL	12	1	--	1	6	4
WEST-CENTRAL:						
0-2	2	2	--	--	--	--
6-10	3	1	--	2	--	--
11-20	11	1	1	1	7	1
21 PLUS	23	--	3	2	1	17
TOTAL	39	4	4	5	8	18
SOUTHWEST:						
3-5	4	2	2	--	--	--
6-10	1	1	--	--	--	--
11-20	7	--	--	2	4	1
21 PLUS	30	2	--	5	9	14
TOTAL	42	5	2	7	13	15
CENTRAL:						
11-20	4	1	--	1	2	--
21 PLUS	2	--	1	1	--	--
TOTAL	6	1	1	2	2	--
BLUE MOUNTAIN:						
11-20	2	--	--	--	2	--
TOTAL	2	--	--	--	2	--
ALL AREAS:						
0-2	2	2	--	--	--	--
3-5	4	2	2	--	--	--
6-10	4	2	--	2	--	--
11-20	28	2	1	5	18	2
21 PLUS	63	3	4	8	13	35
TOTAL	101	11	7	15	31	37

Table 42—Average number of operating days per year of veneer and plywood mills by type of mill and resource area, Oregon, 1982

RESOURCE AREA	VENEER MILL	LAYUP MILL	VENEER AND LAYUP MILL
NORTHWEST	193	220	261
WEST-CENTRAL	198	243	222
SOUTHWEST	220	233	194
CENTRAL	200	--	229
BLUE MOUNTAIN	28	--	258
ALL AREAS	201	236	216

Table 43—Log consumption by veneer and plywood mills, by type of material and resource area, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	ALL TYPES	SOUND LOGS	UTILITY LOGS
NORTHWEST	249,997	241,673	8,324
WEST-CENTRAL	724,999	585,362	139,637
SOUTHWEST	848,075	763,336	84,739
CENTRAL AND BLUE MOUNTAIN 1/	211,885	203,540	8,345
ALL AREAS	2,034,956	1,793,911	241,045

1/Combined to avoid disclosure.

Table 44—Log consumption by veneer and plywood mills, by age group of timber and resource area, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	ALL AGE GROUPS	OLD GROWTH (100 YEARS AND OLDER)	YOUNG GROWTH (LESS THAN 100 YEARS)
NORTHWEST	249,997	159,114	90,883
WEST-CENTRAL	724,999	461,699	263,300
SOUTHWEST	848,075	670,153	177,922
CENTRAL AND BLUE MOUNTAIN 1/	211,885	124,388	87,497
ALL AREAS	2,034,956	1,415,354	619,602

1/Combined to avoid disclosure.

Table 45—Log inventory, log consumption, and estimated log receipts by veneer and plywood mills, by resource area, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	LOG INVENTORY			LOG CONSUMPTION	ESTIMATED LOG RECEIPTS
	JANUARY 1,1982	DECEMBER 31,1982	NET CHANGE		
NORTHWEST	71,725	57,276	-14,449	249,997	235,548
WEST-CENTRAL	143,349	153,526	+10,177	724,999	735,176
SOUTHWEST	202,093	166,615	-35,478	848,075	812,597
CENTRAL AND BLUE MOUNTAIN 1/	74,475	72,360	-2,115	211,885	209,770
ALL AREAS	491,642	449,777	-41,865	2,034,956	1,993,091

1/Combined to avoid disclosure.

Table 46—Log consumption by veneer and plywood mills, by ownership class, resource area, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY		OTHER PRIVATE
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
NORTHWEST	249,997	2,596	101,781	6,608	--	96,156	27,485	15,371
WEST-CENTRAL	724,999	21,018	246,864	82,458	--	243,579	52,235	78,845
SOUTHWEST	848,075	17,053	209,330	100,432	2,516	406,262	73,712	38,770
CENTRAL AND BLUE MOUNTAIN 1/	211,885	921	79,821	770	35,069	72,514	16,458	6,332
ALL AREAS	2,034,956	41,588	637,796	190,268	37,585	818,511	169,890	139,318

1/Combined to avoid disclosure.

Table 47—Dependency (%) of veneer and plywood mills on logs by ownership class, and resource area, Oregon, 1982

(NUMBER OF MILLS)

RESOURCE AREA	NATIONAL FOREST				STATE				BUREAU OF LAND MANAGEMENT			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
NORTHWEST	4	3	1	3	7	4	--	--	7	4	--	--
WEST-CENTRAL	6	12	9	5	18	14	--	--	11	17	4	--
SOUTHWEST	4	14	9	4	22	9	--	--	8	18	5	--
CENTRAL	2	--	2	2	5	1	--	--	5	1	--	--
BLUE MOUNTAIN	--	1	--	1	2	--	--	--	1	1	--	--
ALL AREAS	16	30	21	15	54	28	--	--	32	41	9	--

	OTHER PUBLIC				FOREST INDUSTRY								OTHER PRIVATE			
					OWN WOOD SUPPLY				OTHER WOOD SUPPLY							
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
NORTHWEST	11	--	--	--	5	1	3	2	5	4	1	1	6	4	--	1
WEST-CENTRAL	32	--	--	--	13	11	1	7	17	14	1	--	16	13	2	1
SOUTHWEST	26	5	--	--	11	9	3	8	12	16	1	2	15	14	2	--
CENTRAL	4	1	--	1	4	1	--	1	4	1	1	--	2	4	--	--
BLUE MOUNTAIN	2	--	--	--	1	--	--	1	1	1	--	--	--	2	--	--
ALL AREAS	75	6	--	1	34	22	7	19	39	36	4	3	39	37	4	2

Table 48—Log consumption by veneer and plywood mills, by species, resource area, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	ALL SPECIES	DOUGLAS-FIR	HEMLOCK	TRUE FIRS	SPRUCE	PONDEROSA PINE	LODGEPOLE PINE	WESTERN REDCEDAR	OTHER SOFTWOODS	RED ALDER	OTHE HARDWO
NORTHWEST	249,997	163,103	44,065	5,408	26,203	4,712	--	476	72	2,277	3,68
WEST-CENTRAL	724,999	632,364	55,666	9,543	2,136	4,216	15,546	2,773	1,397	1,358	-
SOUTHWEST	848,075	665,525	96,229	64,710	3,032	433	433	913	13,432	3,368	-
CENTRAL AND BLUE MOUNTAIN 1/	211,885	84,108	3,493	103,219	2,316	3,805	4,658	--	10,286	--	-
ALL AREAS	2,034,956	1,545,100	199,453	182,880	33,687	13,166	20,637	4,162	25,187	7,003	3,68

1/Combined to avoid disclosure.

Table 49—Production and disposition of wood and bark residue by veneer and plywood mills, by resource area and county, Oregon, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND COUNTY	ALL RESIDUE			WOOD RESIDUE			BARK RESIDUE		
	TOTAL	USED 1/	UNUSED	TOTAL	USED 1/	UNUSED	TOTAL	USED 1/	UNUSE
NORTHWEST:									
CLATSOP AND COLUMBIA 2/	182,108	182,108	--	142,539	142,539	--	39,569	39,569	--
MARION	100,828	100,828	--	78,653	78,653	--	22,175	22,175	--
MULTNOMAH, POLK, AND YAMHILL 2/	229,639	229,639	--	176,913	176,913	--	52,726	52,726	--
TOTAL	512,575	512,575	--	398,105	398,105	--	114,470	114,470	--
WEST-CENTRAL:									
BENTON AND LINCOLN 2/	101,610	101,597	13	81,974	81,961	13	19,636	19,636	--
LANE	787,033	786,883	150	616,859	616,709	150	170,174	170,174	--
LINN	397,001	397,001	--	322,812	322,812	--	74,189	74,189	--
TOTAL	1,285,644	1,285,481	163	1,021,645	1,021,482	163	263,999	263,999	--
SOUTHWEST:									
COOS AND CURRY 2/	370,305	369,981	324	293,941	293,617	324	76,364	76,364	--
DOUGLAS	769,012	765,568	3,444	612,352	608,908	3,444	156,660	156,660	--
JACKSON AND JOSEPHINE 2/	393,603	392,207	1,396	326,698	325,302	1,396	66,905	66,905	--
TOTAL	1,532,920	1,527,756	5,164	1,232,991	1,227,827	5,164	299,929	299,929	--
CENTRAL:									
DESCHUTES, JEFFERSON, AND KLAMATH 2/ 3/	340,850	339,774	1,076	269,424	269,049	375	71,426	70,725	701
TOTAL	340,850	339,774	1,076	269,424	269,049	375	71,426	70,725	701
BLUE MOUNTAIN:									
BAKER AND UNION 2/ 3/	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--
ALL AREAS	3,671,989	3,665,586	6,403	2,922,165	2,916,463	5,702	749,824	749,123	701

1/Residues are not necessarily used in the area or county in which they are produced.

2/Combined to avoid disclosure.

3/Central and Blue Mountain combined to avoid disclosure.

Table 50—Production and disposition of wood residue by veneer and plywood mills, by type of residue, use, resource area, and county, Oregon, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND COUNTY	ALL TYPES OF RESIDUE							COARSE RESIDUE 2/						
	TOTAL	USED 1/					UNUSED	TOTAL	USED 1/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS			TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTHWEST:														
CLATSOP AND COLUMBIA 4/	142,539	142,539	48,490	19,580	64,280	10,189	--	138,373	138,373	48,490	19,580	60,114	10,189	--
MARION	78,653	78,653	65,056	3,770	--	9,827	--	76,563	76,563	65,056	1,680	--	9,827	--
MULTNOMAH, POLK, AND YAMHILL 4/	176,913	176,913	126,286	35,033	5,570	10,024	--	173,964	173,964	126,286	35,033	2,621	10,024	--
TOTAL	398,105	398,105	239,832	58,383	69,850	30,040	--	388,900	388,900	239,832	56,293	62,735	30,040	--
WEST-CENTRAL:														
BENTON AND LINCOLN 4/	81,974	81,961	47,607	2,455	21,714	10,185	13	77,656	77,645	47,607	2,455	17,398	10,185	13
LANE	616,859	616,709	294,621	34,207	160,256	127,625	150	598,170	598,020	294,621	32,117	143,657	127,625	150
LINN	322,812	322,812	172,910	49,655	72,549	27,698	--	303,886	303,886	172,910	49,655	53,623	27,698	--
TOTAL	1,021,645	1,021,482	515,138	86,317	254,519	165,508	163	979,714	979,551	515,138	84,227	214,678	165,508	163
SOUTHWEST:														
COOS AND CURRY 4/	293,941	293,617	147,368	46,791	63,112	36,346	324	282,127	281,803	147,368	43,271	54,818	36,346	324
DOUGLAS	612,352	608,908	330,263	146,457	86,278	45,910	3,444	588,253	584,809	330,263	142,983	65,467	44,096	3,444
JACKSON AND JOSEPHINE 4/	326,698	325,302	90,171	24,262	153,043	57,826	1,396	302,514	301,118	90,171	24,126	135,828	50,993	1,396
TOTAL	1,232,991	1,227,827	567,802	217,510	302,433	140,082	5,164	1,170,894	1,165,730	567,802	210,380	256,113	131,435	5,164
CENTRAL:														
DESCHUTES, JEFFERSON, AND KLAMATH 4/ 5/	269,424	269,049	151,662	47,201	38,292	31,894	375	259,476	259,101	151,662	42,255	33,290	31,894	375
TOTAL	269,424	269,049	151,662	47,201	38,292	31,894	375	259,476	259,101	151,662	42,255	33,290	31,894	375
BLUE MOUNTAIN:														
BAKER AND UNION 4/ 5/	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS	2,922,165	2,916,463	1,474,434	409,411	665,094	367,524	5,702	2,798,984	2,793,282	1,474,434	393,155	566,816	358,877	5,702

	FINE RESIDUE 3/						
	TOTAL	USED 1/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTHWEST:							
CLATSOP AND COLUMBIA 4/	4,166	4,166	--	--	4,166	--	--
MARION	2,090	2,090	--	2,090	--	--	--
MULTNOMAH, POLK, AND YAMHILL 4/	2,949	2,949	--	--	2,949	--	--
TOTAL	9,205	9,205	--	2,090	7,115	--	--
WEST-CENTRAL:							
BENTON AND LINCOLN 4/	4,316	4,316	--	--	4,316	--	--
LANE	18,689	18,689	--	2,090	16,599	--	--
LINN	18,926	18,926	--	--	18,926	--	--
TOTAL	41,931	41,931	--	2,090	39,841	--	--
SOUTHWEST:							
COOS AND CURRY 4/	11,814	11,814	--	3,520	8,294	--	--
DOUGLAS	26,099	26,099	--	3,474	20,811	1,814	--
JACKSON AND JOSEPHINE 4/	24,184	24,184	--	136	17,215	6,833	--
TOTAL	62,097	62,097	--	7,130	46,320	8,647	--
CENTRAL:							
DESCHUTES, JEFFERSON, AND KLAMATH 4/ 5/	9,948	9,948	--	4,946	5,002	--	--
TOTAL	9,948	9,948	--	4,946	5,002	--	--
BLUE MOUNTAIN:							
BAKER AND UNION 4/ 5/	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	123,181	123,181	--	16,256	98,278	8,647	—

/Residues are not necessarily used in the area or county in which they are produced.

/Coarse residue includes log trim, cores, veneer clippings, rejected veneer, roundup, and spur trim.

/Fine residue includes sawdust and sander dust.

/Combined to avoid disclosure.

/Central and Blue Mountain combined to avoid disclosure.

Table 51—Production and disposition of bark residue by veneer and plywood mills, by use, resource area, and county, Oregon, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND COUNTY	ALL BARK	USED 1/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTHWEST:							
CLATSOP AND COLUMBIA 2/	39,569	39,569	--	--	39,569	--	--
MARION	22,175	22,175	--	--	22,175	--	--
MULTNOMAH, POLK, AND YAMHILL 2/	52,726	52,726	--	--	52,726	--	--
TOTAL	114,470	114,470	--	--	114,470	--	--
WEST-CENTRAL:							
BENTON AND LINCOLN 2/	19,636	19,636	--	--	19,636	--	--
LANE	170,174	170,174	--	--	153,159	17,015	--
LINN	74,189	74,189	--	--	74,113	76	--
TOTAL	263,999	263,999	--	--	246,908	17,091	--
SOUTHWEST:							
COOS AND CURRY 2/	76,364	76,364	--	--	76,237	127	--
DOUGLAS	156,660	156,660	--	--	156,217	443	--
JACKSON AND JOSEPHINE 2/	66,905	66,905	--	--	66,905	--	--
TOTAL	299,929	299,929	--	--	299,359	570	--
CENTRAL:							
DESCHUTES, JEFFERSON, AND KLAMATH 2/ 3/	71,426	70,725	--	--	70,725	--	701
TOTAL	71,426	70,725	--	--	70,725	--	701
BLUE MOUNTAIN:							
BAKER AND UNION 2/ 3/	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--
ALL AREAS	749,824	749,123	--	--	731,462	17,661	701

1/Residues are not necessarily used in the area or county in which they are produced.

2/Combined to avoid disclosure.

3/Central and Blue Mountain combined to avoid disclosure.

Table 52—Number of pulpmills and board mills by type of operation, resource area, and county, Oregon, 1982

RESOURCE AREA AND COUNTY	ALL MILLS	PULPMILL				BOARD MILL		
		SULFITE	SULFATE	GROUNDWOOD	SEMICHEMICAL	HARDBOARD	PARTICLE BOARD	INSULATION BOARD
NORTHWEST:								
CLACKAMAS	3	1	--	2	--	--	--	--
CLATSOP	2	--	1	1	--	--	--	--
COLUMBIA	1	--	1	--	--	--	--	--
HOOD RIVER	1	--	--	--	--	1	--	--
WASHINGTON	1	--	--	--	--	1	--	--
YAMHILL	2	1	--	1	--	--	--	--
TOTAL	10	2	2	4	--	2	--	--
WEST-CENTRAL:								
BENTON	2	--	--	--	--	1	1	--
LANE	3	--	1	--	--	--	2	--
LINCOLN	2	--	1	--	1	--	--	--
LINN	6	1	2	--	--	1	2	--
TOTAL	13	1	4	--	1	2	5	--
SOUTHWEST:								
COOS	1	--	--	--	1	--	--	--
DOUGLAS	2	--	1	--	--	--	1	--
JACKSON	3	--	--	--	--	--	3	--
TOTAL	6	--	1	--	1	--	4	--
CENTRAL:								
DESCHUTES	1	--	--	--	--	--	1	--
KLAMATH	3	--	--	--	--	2	1	--
TOTAL	4	--	--	--	--	2	2	--
BLUE MOUNTAIN:								
UMATILLA	2	--	--	--	--	1	--	1
UNION	1	--	--	--	--	--	1	--
TOTAL	3	--	--	--	--	1	1	1
ALL AREAS	36	3	7	4	2	7	12	1

Table 53—Installed capacity of pulpmills and board mills by type of operation, resource area, and county Oregon, 1982

RESOURCE AREA AND COUNTY	PULPMILL				BOARD MILL		
	SULFITE	SULFATE	GROUNDWOOD	SEMICHEMICAL	HARDBOARD	PARTICLE BOARD	INSULATION BOARD
	24-HOUR CAPACITY (TONS)				ANNUAL CAPACITY (MILLION SQUARE FEET) 1/8-INCH BASIS	3/4-INCH BASIS	1/2-INCH BAS
NORTHWEST:							
CLACKAMAS	180	--	500	--	--	--	--
CLATSOP	--	710	270	--	--	--	--
COLUMBIA	--	852	--	--	--	--	--
HOOD RIVER	--	--	--	--	96	--	--
WASHINGTON	--	--	--	--	120	--	--
YAMHILL	200	--	500	--	--	--	--
TOTAL	380	1,562	1,270	--	216	--	--
WEST-CENTRAL:							
BENTON	--	--	--	--	124	16	--
LANE	--	1,400	--	--	--	145	--
LINCOLN	--	1,165	--	258	--	--	--
LINN	200	1,025	--	--	75	184	--
TOTAL	200	3,590	--	258	199	345	--
SOUTHWEST:							
COOS	--	--	--	410	--	--	--
DOUGLAS	--	600	--	--	--	280	--
JACKSON	--	--	--	--	--	266	--
TOTAL	--	600	--	410	--	546	--
CENTRAL:							
DESCHUTES	--	--	--	--	--	143	--
KLAMATH	--	--	--	--	172	105	--
TOTAL	--	--	--	--	172	248	--
BLUE MOUNTAIN:							
UMATILLA	--	--	--	--	75	--	100
UNION	--	--	--	--	--	115	--
TOTAL	--	--	--	--	75	115	100
ALL AREAS	580	5,752	1,270	668	662	1,254	100

Table 54—Number of pulpmills and board mills by tenure of present owner, type of mill, and years at present site, Oregon, 1982

TYPE OF MILL AND YEARS AT PRESENT SITE	ALL MILLS	TENURE OF PRESENT OWNER (YEARS)				
		0-2	3-5	6-10	11-20	21 PLUS
SULFITE:						
21 PLUS	3	--	--	--	1	2
TOTAL	3	--	--	--	1	2
SULFATE:						
11-20	3	1	--	--	2	--
21 PLUS	4	--	--	--	1	3
TOTAL	7	1	--	--	3	3
GROUNDWOOD:						
11-20	1	--	--	--	1	--
21 PLUS	5	1	--	--	--	4
TOTAL	6	1	--	--	1	4
HARDBOARD:						
6-10	1	--	--	1	--	--
21 PLUS	6	--	--	--	1	5
TOTAL	7	--	--	1	1	5
PARTICLE BOARD:						
3-5	1	--	1	--	--	--
6-10	1	--	--	1	--	--
11-20	6	--	--	--	6	--
21 PLUS	4	--	--	2	1	1
TOTAL	12	--	1	3	7	1
INSULATION BOARD:						
21 PLUS	1	--	--	--	--	1
TOTAL	1	--	--	--	--	1
ALL TYPES	36	2	1	4	13	16

Table 55—Average number of operating days per year of pulpmills and board mills by resource area, Oregon, 1982

RESOURCE AREA	PULPMILL	BOARD MILL
NORTHWEST	344	228
WEST-CENTRAL	329	229
SOUTHWEST	320	213
CENTRAL	--	250
BLUE MOUNTAIN	--	240
ALL AREAS	335	232

Table 56—Wood consumption by pulpmills and board mills, by type of material and resource area, Oregon 1982

RESOURCE AREA	ROUNDWOOD			OTHER WOOD					
	TOTAL	SOUND LOGS	UTILITY LOGS	TOTAL	CHIPS		SAWDUST	SHAVINGS	BAR
					FROM MILL RESIDUE	FROM ROUNDWOOD CHIPPING MILL			
	THOUSAND BOARD FEET, SCRIBNER LOG RULE			TONS, DRY WEIGHT					
NORTHWEST	72,067	2,134	69,933	1,580,893	1,107,986	163,982	295,457	13,468	--
WEST-CENTRAL	--	--	--	2,761,531	1,853,823	453,407	127,872	326,429	--
SOUTHWEST	4,587	4,587	--	793,725	414,310	64,001	108,373	207,041	--
CENTRAL AND BLUE MOUNTAIN 1/	--	--	--	546,810	58,154	71,902	27,229	389,525	--
ALL AREAS	76,654	6,721	69,933	5,682,959	3,434,273	753,292	558,931	936,463	--

1/ Combined to avoid disclosure.

Table 57—Log consumption by pulpmills and board mills, by age group of timber and resource area, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	ALL AGE GROUPS	OLD GROWTH (100 YEARS AND OLDER)	YOUNG GROWTH (LESS THAN 100 YEARS)
NORTHWEST	72,067	--	72,067
WEST-CENTRAL	--	--	--
SOUTHWEST	4,587	2,752	1,835
CENTRAL	--	--	--
BLUE MOUNTAIN	--	--	--
ALL AREAS	76,654	2,752	73,902

Table 58—Log consumption by pulpmills and board mills, by ownership class and resource area, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY		OTHER PRIVATE
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
NORTHWEST	72,067	24	313	--	1,800	43,492	37	26,401
WEST-CENTRAL	--	--	--	--	--	--	--	--
SOUTHWEST	4,587	--	321	—	—	3,532	--	734
CENTRAL	--	--	--	--	--	--	--	--
BLUE MOUNTAIN	--	--	--	--	--	—	--	--
ALL AREAS	76,654	24	634	--	1,800	47,024	37	27,135

Table 59—Dependency (%) of pulpmills and board mills on logs by ownership class and resource area, Oregon, 1982

(NUMBER OF MILLS)

RESOURCE AREA	NATIONAL FOREST				STATE				BUREAU OF LAND MANAGEMENT			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
NORTHWEST	1	4	--	--	3	2	--	--	5	--	--	--
WEST-CENTRAL	--	--	--	--	--	--	--	--	--	--	--	--
SOUTHWEST	--	1	--	--	1	--	--	--	1	--	--	--
CENTRAL	--	--	--	--	--	--	--	--	--	--	--	--
BLUE MOUNTAIN	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS	1	5	--	--	4	2	--	--	6	--	--	--

	OTHER PUBLIC				FOREST INDUSTRY								OTHER PRIVATE		
					OWN WOOD SUPPLY				OTHER WOOD SUPPLY						
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%
NORTHWEST	3	2	--	--	--	2	2	1	3	2	--	--	1	2	--
WEST-CENTRAL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SOUTHWEST	1	--	--	--	--	--	--	1	1	--	--	--	--	1	--
CENTRAL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUE MOUNTAIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS	4	2	--	--	--	2	2	2	4	2	--	--	1	3	--

Table 60—Pulpmill and board mill consumption of mill residue and chips from other sources, by state of origin, resource area, and type of material, Oregon, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND TYPE OF MATERIAL	TOTAL	OREGON	WASHINGTON	CALIFORNIA	IDAHO	OTHER
NORTHWEST:						
CHIP RESIDUE	1,107,986	696,684	66,750	--	322,302	22,250
CHIPS, OTHER SOURCES	163,982	151,670	--	--	12,312	--
SAWDUST AND SHAVINGS	308,925	123,283	16,800	--	163,242	5,600
TOTAL	1,580,893	971,637	83,550	--	497,856	27,850
WEST-CENTRAL:						
CHIP RESIDUE	1,853,823	1,853,823	--	--	--	--
CHIPS, OTHER SOURCES	453,407	453,407	--	--	--	--
SAWDUST AND SHAVINGS	454,301	454,301	--	--	--	--
TOTAL	2,761,531	2,761,531	--	--	--	--
SOUTHWEST:						
CHIP RESIDUE	414,310	410,625	--	3,685	--	--
CHIPS, OTHER SOURCES	64,001	59,326	--	4,675	--	--
SAWDUST AND SHAVINGS	315,414	294,319	--	21,095	--	--
TOTAL	793,725	764,270	--	29,455	--	--
CENTRAL AND BLUE MOUNTAIN 1/:						
CHIP RESIDUE	58,154	54,899	--	3,255	--	--
CHIPS, OTHER SOURCES	71,902	71,902	--	--	--	--
SAWDUST AND SHAVINGS	416,754	347,222	20,094	20,732	28,706	--
TOTAL	546,810	474,023	20,094	23,987	28,706	--
ALL AREAS:						
CHIP RESIDUE	3,434,273	3,016,031	66,750	6,940	322,302	22,250
CHIPS, OTHER SOURCES	753,292	736,305	--	4,675	12,312	--
SAWDUST AND SHAVINGS	1,495,394	1,219,125	36,894	41,827	191,948	5,600
TOTAL	5,682,959	4,971,461	103,644	53,442	526,562	27,850

1/Combined to avoid disclosure.

Table 61—Number of "other industry" mills by type of industry, resource area, and county, Oregon, 1982

RESOURCE AREA AND COUNTY	ALL TYPES	SHAKE AND SHINGLE	EXPORT	POST, POLE, AND PILING
NORTHWEST:				
CLACKAMAS	2	2	--	--
CLATSOP	9	1	8	--
COLUMBIA	4	3	--	1
MULTNOMAH	12	1	10	1
POLK	1	1	--	--
TILLAMOOK	7	7	--	--
WASHINGTON	1	--	--	1
YAMHILL	2	--	--	2
TOTAL	38	15	18	5
WEST-CENTRAL:				
BENTON	1	1	--	--
LANE	9	7	--	2
LINCOLN	2	1	1	--
LINN	4	4	--	--
TOTAL	16	13	1	2
SOUTHWEST:				
COOS	16	3	13	--
DOUGLAS	1	1	--	--
TOTAL	17	4	13	--
CENTRAL:				
DESCHUTES	1	1	--	--
WASCO	1	--	--	1
TOTAL	2	1	--	1
BLUE MOUNTAIN:				
UMATILLA	1	1	--	--
TOTAL	1	1	--	--
ALL AREAS	74	34	32	8

Table 62—Installed capacity of "other industry" mills by resource area and county, Oregon, 1982

RESOURCE AREA AND COUNTY	SHAKE AND SHINGLE	POST, POLE, AND PILING
	8-HOUR CAPACITY (SQUARES)	ANNUAL CAPACITY (THOUSAND BOARD FEET), SCRIBNER LOG RULE
NORTHWEST:		
CLACKAMAS	146	--
CLATSOP	80	--
COLUMBIA	100	8,405
MULTNOMAH	40	28,470
POLK	104	--
TILLAMOOK	285	--
WASHINGTON	--	6,570
YAMHILL	--	21,600
TOTAL	755	65,045
WEST-CENTRAL:		
BENTON	30	--
LANE	607	30,607
LINCOLN	100	--
LINN	326	--
TOTAL	1,063	30,607
SOUTHWEST:		
COOS	150	--
DOUGLAS	15	--
TOTAL	165	--
CENTRAL:		
DESCHUTES	60	--
WASCO	--	2,528
TOTAL	60	2,528
BLUE MOUNTAIN:		
UMATILLA	75	--
TOTAL	75	--
ALL AREAS	2,118	98,180

Table 63—Number of shake and shingle mills with selected equipment by resource area and county, Oregon, 1982

RESOURCE AREA AND COUNTY	CHIPPER	BARKER	BURNER
NORTHWEST:			
CLACKAMAS	2	--	--
CLATSOP	--	1	1
COLUMBIA	--	--	1
MULTNOMAH	1	--	--
POLK	1	--	--
TILLAMOOK	--	--	2
TOTAL	4	1	4
WEST-CENTRAL:			
BENTON	--	--	--
LANE	3	2	1
LINCOLN	--	--	1
LINN	2	--	--
TOTAL	5	2	2
SOUTHWEST:			
COOS	1	1	1
DOUGLAS	--	--	1
TOTAL	1	1	2
CENTRAL:			
DESCHUTES	--	--	--
TOTAL	--	--	--
BLUE MOUNTAIN:			
UMATILLA	--	--	1
TOTAL	--	--	1
ALL AREAS	10	4	9

Table 64—Number of "other industry" mills by years of tenure of present ownership, type of mill, and years at present site, Oregon, 1982

TYPE OF MILL AND YEARS AT PRESENT SITE	ALL MILLS	TENURE OF PRESENT OWNER (YEARS)				
		0-2	3-5	6-10	11-20	21 PLUS
SHAKE AND SHINGLE:						
0-2	3	3	--	--	--	--
3-5	2	--	2	--	--	--
6-10	5	--	2	3	--	--
11-20	9	--	--	2	7	--
21 PLUS	15	--	--	2	3	10
TOTAL	34	3	4	7	10	10
POST, POLE, AND PILING:						
11-20	2	--	--	1	1	--
21 PLUS	6	--	--	--	1	5
TOTAL	8	--	--	1	2	5

Table 65—Average number of operating days per year of "other industry" mills by type of mill and resource area, Oregon, 1982

RESOURCE AREA	SHAKE AND SHINGLE	POST, POLE, AND PILING
NORTHWEST	118	255
WEST-CENTRAL	106	309
SOUTHWEST	189	--
CENTRAL	180	210
BLUE MOUNTAIN	32	--
ALL AREAS	121	263

Table 66—Wood consumption by "other industry" mills, by type of material, resource area, and type of mill, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND TYPE OF MILL	ROUNDWOOD			OTHER WOOD
	TOTAL ROUNDWOOD	SOUND LOGS	UTILITY LOGS	
NORTHWEST:				
SHAKE AND SHINGLE	2,370	1,692	678	1,507
EXPORT	208,792	207,730	1,062	869
POST, POLE, AND PILING	22,699	22,699	--	--
TOTAL	233,861	232,121	1,740	2,376
WEST-CENTRAL:				
SHAKE AND SHINGLE	7,981	7,567	414	648
EXPORT 1/	--	--	--	--
POST, POLE, AND PILING 2/	5,795	5,795	--	--
TOTAL	13,776	13,362	414	648
SOUTHWEST:				
SHAKE AND SHINGLE 3/	1,118	774	344	622
EXPORT 1/	189,377	187,247	2,130	--
TOTAL	190,495	188,021	2,474	622
CENTRAL:				
SHAKE AND SHINGLE 3/	--	--	--	--
POST, POLE, AND PILING 2/	--	--	--	--
TOTAL	--	--	--	--
BLUE MOUNTAIN:				
SHAKE AND SHINGLE 3/	--	--	--	--
TOTAL	--	--	--	--
ALL AREAS:				
SHAKE AND SHINGLE	11,469	10,033	1,436	2,777
EXPORT	398,169	394,977	3,192	869
POST, POLE, AND PILING	28,494	28,494	--	--
TOTAL	438,132	433,504	4,628	3,646

1/West-Central and Southwest combined to avoid disclosure.

2/West-Central and Central combined to avoid disclosure.

3/Southwest, Central, and Blue Mountain combined to avoid disclosure.

Table 67—Log consumption by "other industry" mills, by age group of timber, resource area, and type of mill, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND TYPE OF MILL	ALL AGE GROUPS	OLD GROWTH (100 YEARS AND OLDER)	YOUNG GROWTH (LESS THAN 100 YEARS)
NORTHWEST:			
SHAKE AND SHINGLE	2,370	2,350	20
EXPORT	208,792	52,033	156,759
POST, POLE, AND PILING	22,699	375	22,324
TOTAL	233,861	54,758	179,103
WEST-CENTRAL:			
SHAKE AND SHINGLE	7,981	7,535	446
EXPORT 1/	--	--	--
POST, POLE, AND PILING 2/	5,795	1,847	3,948
TOTAL	13,776	9,382	4,394
SOUTHWEST:			
SHAKE AND SHINGLE 3/	1,118	1,108	10
EXPORT 1/	189,377	87,750	101,627
TOTAL	190,495	88,858	101,637
CENTRAL:			
SHAKE AND SHINGLE 3/	--	--	--
POST, POLE, AND PILING 2/	--	--	--
TOTAL	--	--	--
BLUE MOUNTAIN:			
SHAKE AND SHINGLE 3/	--	--	--
TOTAL	--	--	--
ALL AREAS:			
SHAKE AND SHINGLE	11,469	10,993	476
EXPORT	398,169	139,783	258,386
POST, POLE, AND PILING	28,494	2,222	26,272
TOTAL	438,132	152,998	285,134

1/West-Central and Southwest combined to avoid disclosure.

2/West-Central and Central combined to avoid disclosure.

3/Southwest, Central, and Blue Mountain combined to avoid disclosure.

Table 68—Log consumption by "other industry" mills, by ownership class, resource area, and type of mill, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND TYPE OF MILL	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY		OTH PRIV
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
NORTHWEST:								
SHAKE AND SHINGLE	2,370	65	1,145	20	100	15	430	5
EXPORT	208,792	10,796	1,695	73	1,213	1,350	182,632	11,0
POST, POLE, AND PILING	22,699	1,050	--	--	--	10,548	6,300	4,8
TOTAL	233,861	11,911	2,840	93	1,313	11,913	189,362	16,4
WEST-CENTRAL:								
SHAKE AND SHINGLE	7,981	--	3,297	901	--	--	2,967	8
EXPORT 1/	--	--	--	--	--	--	--	
POST, POLE, AND PILING 2/	5,795	--	572	47	220	488	2,340	2,1
TOTAL	13,776	--	3,869	948	220	488	5,307	2,9
SOUTHWEST:								
SHAKE AND SHINGLE 3/	1,118	--	226	530	--	--	325	
EXPORT 1/	189,377	502	4,592	1,283	--	18,050	163,781	1,1
TOTAL	190,495	502	4,818	1,813	--	18,050	164,106	1,2
CENTRAL:								
SHAKE AND SHINGLE 3/	--	--	--	--	--	--	--	
POST, POLE, AND PILING 2/	--	--	--	--	--	--	--	
TOTAL	--	--	--	--	--	--	--	
BLUE MOUNTAIN:								
SHAKE AND SHINGLE 3/	--	--	--	--	--	--	--	
TOTAL	--	--	--	--	--	--	--	
ALL AREAS:								
SHAKE AND SHINGLE	11,469	65	4,668	1,451	100	15	3,722	1,4
EXPORT	398,169	11,298	6,287	1,356	1,213	19,400	346,413	12,2
POST, POLE, AND PILING	28,494	1,050	572	47	220	11,036	8,640	6,9
TOTAL	438,132	12,413	11,527	2,854	1,533	30,451	358,775	20,5

1/West-Central and Southwest combined to avoid disclosure.

2/West-Central and Central combined to avoid disclosure.

3/Southwest, Central, and Blue Mountain combined to avoid disclosure.

Table 69—Dependency (%) of "other industry" mills on logs by ownership class, resource area, and type of mill, Oregon, 1982

(NUMBER OF MILLS)

RESOURCE AREA AND TYPE OF MILL	NATIONAL FOREST				STATE				BUREAU OF LAND MANAGEMENT			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
NORTHWEST:												
SHAKE AND SHINGLE	6	--	2	2	8	1	1	--	9	1	--	--
EXPORT	15	2	1	--	15	1	--	2	17	1	--	--
POST, POLE, AND PILING	5	--	--	--	2	2	1	--	5	--	--	--
TOTAL	26	2	3	2	25	4	2	2	31	2	--	--
WEST-CENTRAL:												
SHAKE AND SHINGLE	3	3	4	3	13	--	--	--	9	4	--	--
EXPORT	--	1	--	--	1	--	--	--	1	--	--	--
POST, POLE, AND PILING	1	1	--	--	2	--	--	--	1	1	--	--
TOTAL	4	5	4	3	16	--	--	--	11	5	--	--
SOUTHWEST:												
SHAKE AND SHINGLE	--	2	--	1	3	--	--	--	1	1	--	1
EXPORT	11	1	--	1	12	1	--	--	11	2	--	--
TOTAL	11	3	--	2	15	1	--	--	12	3	--	1
CENTRAL:												
SHAKE AND SHINGLE	--	1	--	--	1	--	--	--	1	--	--	--
POST, POLE, AND PILING	--	1	--	--	1	--	--	--	1	--	--	--
TOTAL	--	2	--	--	2	--	--	--	2	--	--	--
BLUE MOUNTAIN:												
SHAKE AND SHINGLE	--	--	--	1	1	--	--	--	1	--	--	--
TOTAL	--	--	--	1	1	--	--	--	1	--	--	--
ALL AREAS:												
SHAKE AND SHINGLE	9	6	6	7	26	1	1	--	21	6	-	1
EXPORT	26	4	1	1	28	2	--	2	29	3	--	--
POST, POLE, AND PILING	6	2	--	--	5	2	1	--	7	1	--	--
TOTAL	41	12	7	8	59	5	2	2	57	10	--	1

RESOURCE AREA AND TYPE OF MILL	OTHER PUBLIC				FOREST INDUSTRY								OTHER PRIVATE			
					OWN WOOD SUPPLY				OTHER WOOD SUPPLY							
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
NORTHWEST:																
SHAKE AND SHINGLE	9	--	1	--	9	1	--	--	5	1	3	1	5	1	2	2
EXPORT	16	2	--	--	17	--	--	1	3	2	--	13	13	4	--	1
POST, POLE, AND PILING	5	--	--	--	3	--	1	1	2	1	1	1	3	--	1	1
TOTAL	30	2	1	--	29	1	1	2	10	4	4	15	21	5	3	4
WEST-CENTRAL:																
SHAKE AND SHINGLE	13	--	--	--	13	--	--	--	3	3	4	3	7	4	1	1
EXPORT	1	--	--	--	1	--	--	--	--	--	1	--	--	--	1	--
POST, POLE, AND PILING	2	--	--	--	--	2	--	--	--	1	1	--	--	1	--	1
TOTAL	16	--	--	--	14	2	--	--	3	4	6	3	7	5	2	2
SOUTHWEST:																
SHAKE AND SHINGLE	3	--	--	--	3	--	--	--	1	1	1	--	1	2	--	--
EXPORT	13	--	--	--	12	--	--	1	2	--	--	11	13	--	--	--
TOTAL	16	--	--	--	15	--	--	1	3	1	1	11	14	2	--	--
CENTRAL:																
SHAKE AND SHINGLE	1	--	--	--	1	--	--	--	--	--	--	1	1	--	--	--
POST, POLE, AND PILING	--	1	--	--	--	1	--	--	--	--	1	--	--	1	--	--
TOTAL	1	1	--	--	1	1	--	--	--	--	1	1	1	1	--	--
BLUE MOUNTAIN:																
SHAKE AND SHINGLE	1	--	--	--	1	--	--	--	1	--	--	--	1	--	--	--
TOTAL	1	--	--	--	1	--	--	--	1	--	--	--	1	--	--	--
ALL AREAS:																
SHAKE AND SHINGLE	27	--	1	--	27	1	--	--	10	5	8	5	15	7	3	3
EXPORT	30	2	--	--	30	--	--	2	5	2	1	24	26	4	1	1
POST, POLE, AND PILING	7	1	--	--	3	3	1	1	2	2	3	1	3	2	1	2
TOTAL	64	3	1	--	60	4	1	3	17	9	12	30	44	13	5	6

Table 70—Log consumption by "other industry" mills, by species, resource area, and type of mill, Oregon, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND TYPE OF MILL	ALL SPECIES	DOUGLAS-FIR	HEMLOCK	TRUE FIRS	SPRUCE	PONDEROSA PINE	LODGEPOLE PINE	WESTERN REDCEDAR	OTHER SOFTWOODS	RED ALDER	OTHER HARDWOO
NORTHWEST:											
SHAKE AND SHINGLE	2,370	--	--	--	--	--	--	2,370	--	--	--
EXPORT	208,792	101,586	87,808	13,993	3,773	112	--	--	622	898	--
POST, POLE, AND PILING	22,699	19,069	908	--	--	--	2,722	--	--	--	--
TOTAL	233,861	120,655	88,716	13,993	3,773	112	2,722	2,370	622	898	--
WEST-CENTRAL:											
SHAKE AND SHINGLE	7,981	--	--	--	--	--	--	7,981	--	--	--
EXPORT 1/	--	--	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING 2/	5,795	5,795	--	--	--	--	--	--	--	--	--
TOTAL	13,776	5,795	--	--	--	--	--	7,981	--	--	--
SOUTHWEST:											
SHAKE AND SHINGLE 3/	1,118	--	--	--	--	--	--	730	388	--	--
EXPORT 1/	189,377	147,335	25,741	--	--	--	502	603	15,196	--	--
TOTAL	190,495	147,335	25,741	--	--	--	502	1,333	15,584	--	--
CENTRAL:											
SHAKE AND SHINGLE 3/	--	--	--	--	--	--	--	--	--	--	--
POST, POLE AND PILING 2/	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--	--
BLUE MOUNTAIN:											
SHAKE AND SHINGLE 3/	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS:											
SHAKE AND SHINGLE	11,469	--	--	--	--	--	--	11,081	388	--	--
EXPORT	398,169	248,921	113,549	13,993	3,773	112	502	603	15,818	898	--
POST, POLE AND PILING	28,494	24,864	908	--	--	--	2,722	--	--	--	--
TOTAL	438,132	273,785	114,457	13,993	3,773	112	3,224	11,684	16,206	898	--

1/West-Central and Southwest combined to avoid disclosure.

2/West-Central and Central combined to avoid disclosure.

3/Southwest, Central, and Blue Mountain combined to avoid disclosure.

Table 71—Production and disposition of wood and bark residue by shake and shingle mills, by resource area, Oregon, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA	ALL RESIDUE			WOOD RESIDUE			BARK RESIDUE		
	TOTAL	USED 1/	UNUSED	TOTAL	USED 1/	UNUSED	TOTAL	USED 1/	UNUSED
NORTHWEST	3,160	1,883	1,277	2,452	1,374	1,078	708	509	199
WEST-CENTRAL	5,631	5,189	442	3,976	3,705	271	1,655	1,484	171
SOUTHWEST 2/	1,633	498	1,135	1,270	408	862	363	90	273
CENTRAL 2/	--	--	--	--	--	--	--	--	--
BLUE MOUNTAIN 2/	--	--	--	--	--	--	--	--	--
ALL AREAS	10,424	7,570	2,854	7,698	5,487	2,211	2,726	2,083	643

1/Residues are not necessarily used in the area in which they are produced.

2/Southwest, Central, and Blue Mountain combined to avoid disclosure.

able 72—Production and disposition of wood residue by shake and shingle mills, y type of residue, use, and resource area, Oregon, 1982

(TONS, DRY WEIGHT)

SOURCE AREA	TOTAL	USED 1/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
				ALL TYPES OF RESIDUE			
RTHWEST	2,452	1,374	--	--	934	440	1,078
ST-CENTRAL	3,976	3,705	295	70	2,739	601	271
UTHWEST 2/	1,270	408	--	--	177	231	862
NTRAL 2/	--	--	--	--	--	--	--
UE MOUNTAIN 2/	--	--	--	--	--	--	--
ALL AREAS	7,698	5,487	295	70	3,850	1,272	2,211
				COARSE RESIDUE 3/			
RTHWEST	935	570	--	--	398	172	365
ST-CENTRAL	1,392	1,303	177	--	1,071	55	89
UTHWEST 2/	468	285	--	--	77	208	183	
NTRAL 2/	--	--	--	--	--	--	--
UE MOUNTAIN 2/	--	--	--	--	--	--	--
ALL AREAS	2,795	2,158	177	--	1,546	435	637
				FINE RESIDUE 4/			
RTHWEST	1,517	804	--	--	536	268	713
ST-CENTRAL	2,584	2,402	118	70	1,668	546	182
UTHWEST 2/	802	123	--	--	100	23	679
NTRAL 2/	--	--	--	--	--	--	--
UE MOUNTAIN 2/	--	--	--	--	--	--	--
ALL AREAS	4,903	3,329	118	70	2,304	837	1,574

1/ esidues are not necessarily used in the area in which they are produced.

2/ outhwest, Central, and Blue Mountain combined to avoid disclosure.

3/ oarse residue includes end-block trim and splats.

4/ ine residue includes splints and sawdust.

ble 73—Production and disposition of bark residue by shake and shingle mills, use and resource area, Oregon, 1982

(TONS, DRY WEIGHT)

RE URCE AREA	TOTAL	USED 1/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NO HWEST	708	509	--	--	381	128	199
NE -CENTRAL	1,655	1,484	16	--	1,319	149	171
SO HWEST 2/	363	90	--	--	90	--	273
CE RAL 2/	--	--	--	--	--	--	--
BL MOUNTAIN 2/	--	--	--	--	--	--	--
ALL AREAS	2,726	2,083	16	--	1,790	277	643

1/ sidues are not necessarily used in the area in which they are produced.

2/ uthwest, Central, and Blue Mountain combined to avoid disclosure.

Howard, James O. Oregon's forest products industry: 1982. Resour. Bull. PNW-118 Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; **1984.** 79 p.

This report presents the findings of a 100-percent survey of the primary forest products industry in Oregon for 1982. The survey included the following sectors: lumber; veneer and plywood; pulp and board; shake and shingle; export; and post, pole, and piling. Tabular presentations include characteristics of the industry, nature and flow of logs consumed, and disposition of mill residues by sector and for the industry as a whole.

Keywords: Forest products industry, mill surveys, wood utilization, mill residues, Oregon.

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Pacific Northwest
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Experiment Station

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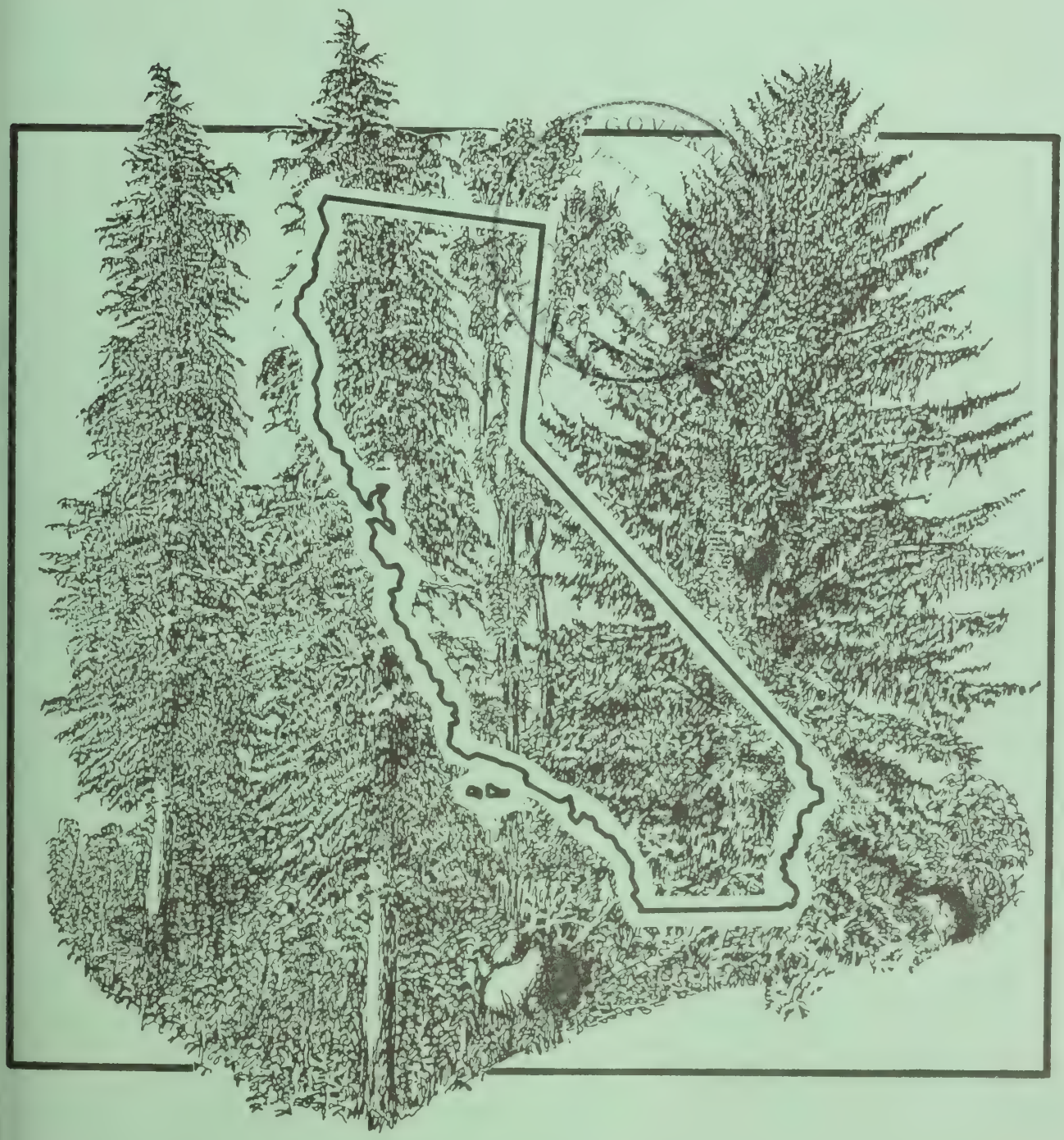
California's Forest Products Industry: 1982

James O. Howard



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Abstract

Howard, James O. California's forest products industry: 1982. Resour. Bull. PNW-119. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; **1984.** 79 p.

This report presents the findings of a 100-percent survey of the primary forest products industry in California for 1982. The survey included the following sectors: lumber; veneer and plywood; pulp and board; shake and shingle; export; and post, pole, and piling. Tabular presentations include characteristics of the industry, nature and flow of logs consumed, and disposition of mill residues, by sector and for the industry as a whole.

Keywords: Forest products industry, mill surveys, wood utilization, mill residues, California.

Summary

This report presents the findings of a 100-percent survey of the forest products industry in California. Data were collected by questionnaire for each mill that operated during 1982. The survey included the following sectors: lumber, veneer and plywood; pulp and board; shake and shingle; export; and post, pole, and piling.

The survey identified 134 separate operations that used a total of 2.6 billion board feet of logs in 1982. The lumber and veneer and plywood sectors were the major users, accounting for 91 percent and 7 percent respectively. In addition, the pulp and board industry used about 1.6 million tons of wood fiber, 91 percent of it in the form of mill residues. The industry as a whole generated 4 million tons of residual materials, of which less than 2 percent was not used.

Data from the survey are presented in tabular form by sector and for the industry as a whole.

reface

This report presents the results of a survey of the primary wood processing industry in California for 1982. This survey identifies the raw material inputs and characteristics of the forest products industry. Data are shown separately for the following industries: lumber; veneer and plywood; pulp and board; shake and shingle; post, pole, and piling; and export.

Similar surveys were produced in 1968, in cooperation with the California State Division of Forestry; and in 1972 and 1976.

Data for the survey were obtained from a 100-percent mail and telephone canvass of all primary wood processing firms in the State. The survey was conducted in 1983. Industry contacts for the survey were based on lists from previous surveys that were updated using assistance from the California Division of Forestry, various directories of the forest products industry, and from information passed on by individual mill owners.

Reliability of the data presented in this report is considered to be high, as the survey was a 100-percent canvass. Information collected from each mill is assumed to be the best available, and whenever possible, the information came from formal records.

In some cases, however, information had to be estimated. Information for individual mills is strictly confidential, and any information that could reveal critical details of an individual operation has been combined with other data to avoid disclosure.

Data for log consumption and product output are actual figures reported by the mills. Subsequent classification of these data (that is, by species, ownership, origin, degree of manufacturing, and other criteria) is based on percentage distributions provided by the mills and may not agree precisely with other published figures. Statistics on mill residues are based on average factors applied to product output. As such, they may differ from actual volumes for a given mill.

Highlights

Industry Characteristics

Total number of mills in 1982 was 134:

Type of mill	Number
Sawmills	101
Veneer and plywood	10
Pulp	4
Board	6
Shake and shingle	4
Log export	4
Post, pole, and piling	5

Humboldt County led all others with 28 mills, or 21 percent of the total for the State.

The 52 largest sawmills had 73 percent of total sawmill capacity.

Only 9 burners operated in the State in 1982.

Wood Consumption

A total of 2,599 million board feet of logs was consumed.

Pulp and board industry consumed 1.5 million tons of mill residues and off-site roundwood chips.

Leading counties in roundwood consumption were:

	Million board feet
Humboldt	514
Mendocino	419
Shasta	342
Tehama	164

About 38 percent of logs was from young-growth timber.

Private lands were the source for 66 percent of the log consumption; Forest industry provided the largest share, 58 percent; 31 percent was from National Forests.

Log consumption by industry:

	Percent
Sawmills	91.2
Veneer and plywood	6.1
Log export	1.1
Pulp and board	1.1
Shake and shingle	.1
Post, pole, and piling	.4

Mill Residues

A total of 4.1 million tons of residues was generated:

Type of mill	Tons (dry weight) of residue
Sawmills	3,849,840
Veneer and plywood	243,132
Shake and shingle	837

77 percent of the residue was wood, 23 percent was bark.

Over 98 percent of the wood and bark residue was used.

50 percent of wood residue went to pulp and board industries; 42 percent was used for fuel.

69 percent of bark was used for fuel; 28 percent was used for miscellaneous purposes.

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ntroduction

California's forest products industry has been a major factor in the supply of wood products for the State and the Nation. Nationally, the industry ranks second in lumber output, accounting for 14 percent of softwood lumber production.[1] The forest products industry also produces significant quantities of plywood, particleboard, and hardboard.

Within the State the activities of the forest products industry are translated into jobs, payroll, tax contributions, and the purchase of services and materials. Although important to the State's economy, the industry has even greater significance at the local level. The forest products industry in Humboldt County, for example, provides about 90 percent of the manufacturing-based employment. In some towns the local mill[2] may be the only employer outside the service industry.

The situation in 1982 is somewhat different than in previous years. In 1976 (the date of the previous mill survey) employment in the forest products industry was reported at 97,000 people.[3] In 1982 the same industries reported employment of just over 73,000 (see footnote 1). Along with lower employment and production, the forest products industry itself changed. In 1982 there were 33 percent fewer mills than in 1976, but the mills that did operate in 1982 tended to be larger. For example, the average capacity of operating sawmills in 1982 was about 10 percent greater than those operating in 1976. And the industry is still changing, reflecting improved economic conditions since 1982. Indicative of this, 13 mills not in production during 1982 were operating in 1983 or indicated they may operate in the future.

Modifications continue in the forest products industry in California, much as they have over the past four decades. There are fewer but more diversified mills, resulting in more efficient and complete use of the timber resource. It is for this reason that up-to-date information about the industry is needed. Decision makers and planners need to know how the industry is changing and how the timber resource is being used. This report provides much of that information and an in-depth look at California's forest products industry during 1982. Coupled with similar reports for 1968, 1972, and 1976,[4] this information provides a basis for examining significant trends in industry characteristics and timber use.

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[1] Western Wood Products Association. 1982 Statistical yearbook of the western lumber industry. Portland, OR: Western Wood Products Association; 1983. 33 p.

[2] See Glossary for definition of terms used in this report.

[3] Western Wood Products Association. 1976 Statistical yearbook. Portland, OR: Western Wood Products Association; 1977. 32 p.

[4] Barrette, Brian R.; Gedney, Donald R.; Oswald, Daniel D. California timber industries, 1968, mill characteristics and wood supply. Sacramento, CA: State of California, Division of Forestry; 1968. 117 p.

Howard, James O. California forest industry, wood consumption and characteristics, 1972. Resour. Bull. PNW-52. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1974. 91 p.

Hiserote, Bruce A.; Howard, James O. California's forest industry, 1976. Resour. Bull. PNW-80. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1978. 95 p.

The forest industry, as the term is used in this study, refers to six primary wood processing industries: sawmills; veneer and plywood; pulp and board; shake and shingle; post, pole, and piling; and export (logs only).

California has been divided into two timber producing regions—coastal and interior (fig. 1). The coastal region consists of the counties west of the crest of the Coast Ranges, from Monterey County to the Oregon border. This region contains all of the coastal redwood (*Sequoia sempervirens* (D. Don) Endl.) forests and extensive stands of Douglas-fir (*Pseudotsuga menziesii* Mirb.) Franco). Within this region are two resource areas, defined by the nature of their timber resource and timber trading patterns. The North Coast is the most important timber-producing area in California, as well as the center for redwood and Douglas-fir processing (fig. 2). The forest industry of the North Coast is the most diversified in California, with all types of primary wood processing represented. The forest industry of the Central Coast is not nearly as significant, having limited timber resources.

Figure 1.—Resource areas for 1982 California forest products industry survey.

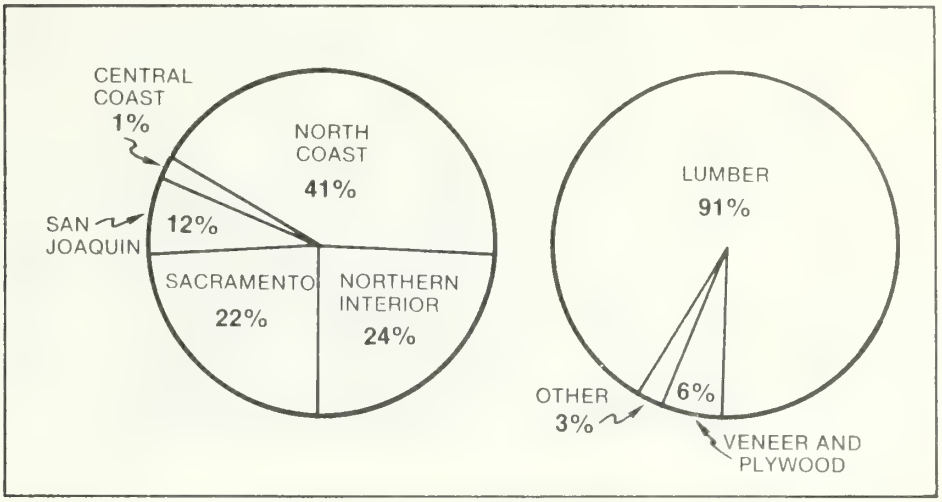


Figure 2.—Distribution of log consumption by resource area and industry, 1982

The interior region is divided into four resource areas, that cover a wide diversity of forest types including pines (*Pinus* spp.), incense-cedar (*Libocedrus decurrens* Torr.), Douglas-fir, true firs (*Abies* spp.), and a mixed-conifer type. The importance of the forest industry and resource decreases from north to south. The Northern Interior, Sacramento, and San Joaquin areas are major timber producers and support a significant industry. The forest industry in the Southern California area is very limited in size, supported by a small timber resource base. Only one mill was reported as operating in Southern California in 1982.

Comparison With Previous Surveys

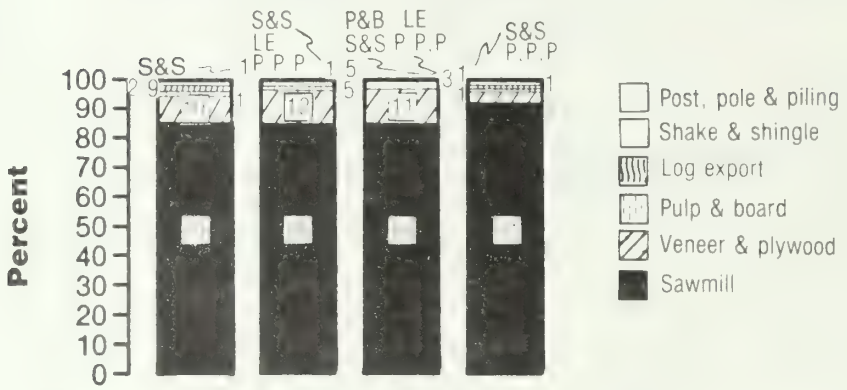
The following graphics indicate some trends in California's forest products industry.[5] These data are taken from this report and from those developed in the 1968, 1972, and 1976 surveys (see footnote 4).

	Number of mills by year			
Industry	1968	1972	1976	1982
Sawmills	216	176	142	101
Veneer and plywood	26	25	21	10
Pulp and board	17	18	17	10
Shake and shingle	3	7	7	4
Post, pole, and piling	NA	6	6	5
Log export	NA	6	7	4
Totals	275	238	200	134

NA = not applicable

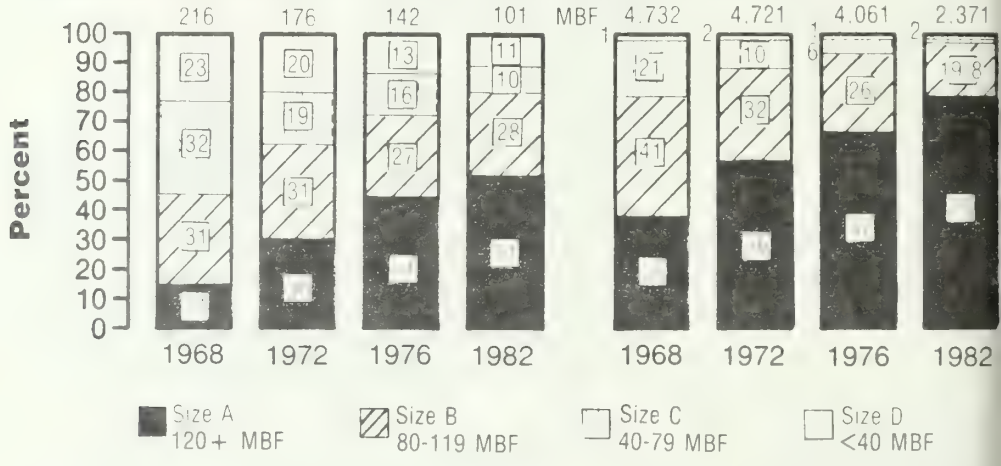
[5] The post, pole, and piling, and log export industries were not included in the 1968 survey, so are not part of the graphic displays for that year.

Log consumption by industry

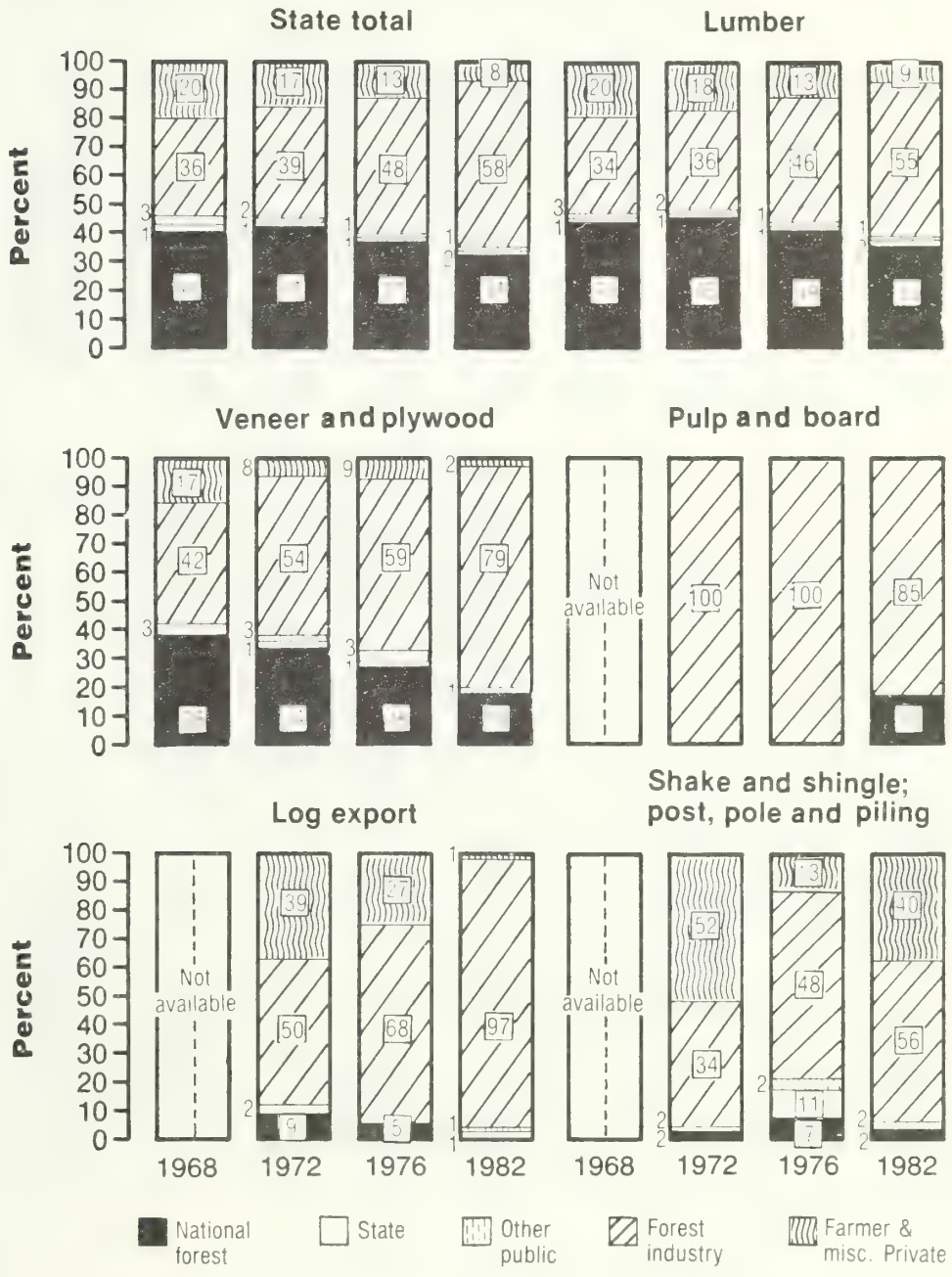


Number of sawmills by size class

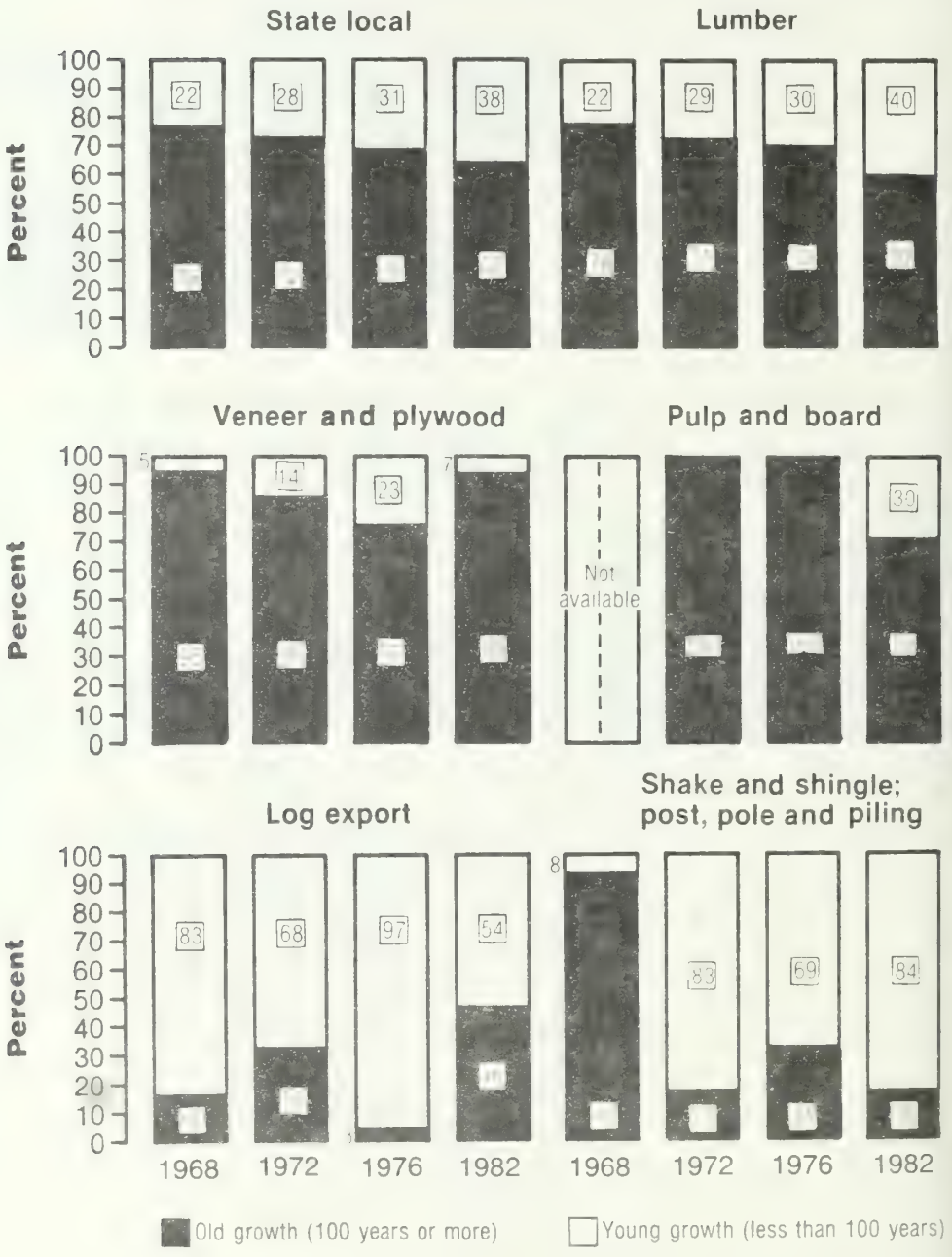
Log consumption by size cl



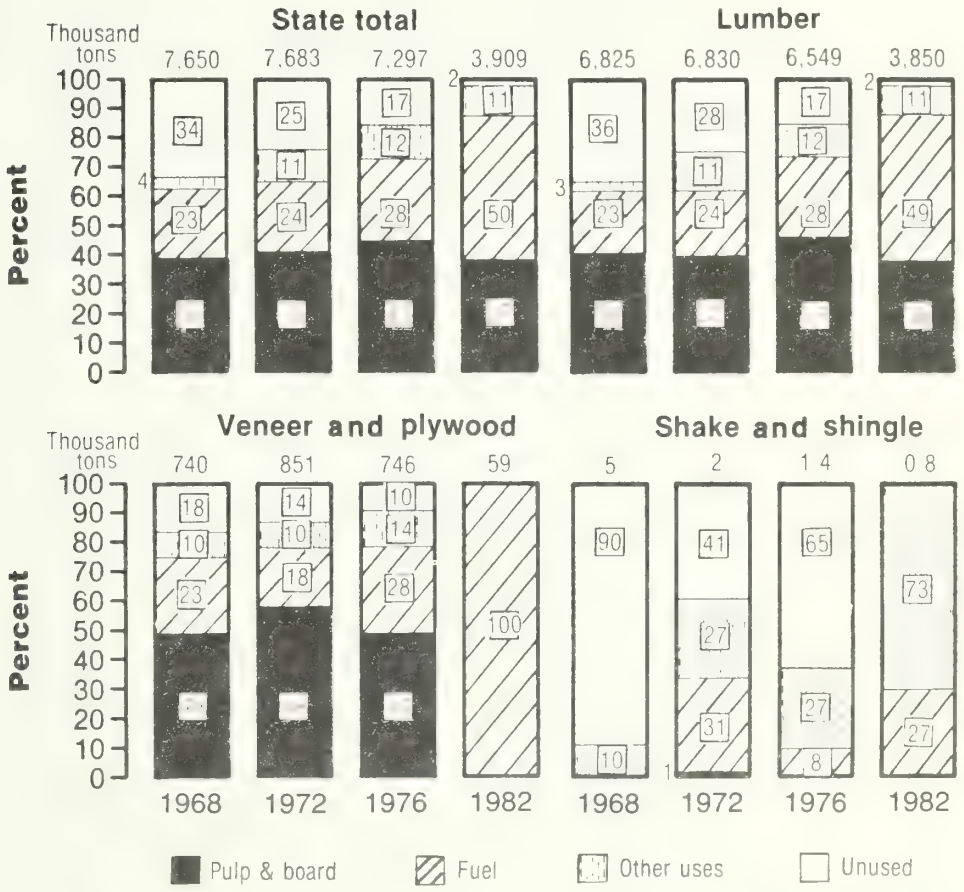
Log consumption by ownership class and by industry



Log consumption by timber age group and by industry



Production and disposition of wood and bark residue by use and by industry



Acknowledgments

We appreciate the help of mill owners and operators who cooperated to provide the data for this report and to the major forest industry associations for their support of this study. Special acknowledgment is made to the following:

State of Washington, Department of Natural Resources, particularly David N. Larsen, Forest Analyst, for assistance in processing the data.

Division of Forestry, State of California, for assistance in updating the mill list.

Appendix I

Measurement Units

All board-foot log volumes are reported in "local scale." No attempt was made to account for variations in scaling standards or to convert to a common scale.

The board foot is the unit of measure used in this report for all wood consumption with the exception of purchased or transferred veneer consumed by plywood mills (square feet, 3/8-inch basis) and mill residues consumed by pulpmills and board mills (tons, dry weight). Consumption by mills not reported in these units was converted using the following general factors:

1 cord = 500 board feet
1 ton = 500 board feet
10.5 squares = 1,000 board feet
1 lineal foot = 3.8 board feet
1 cubic foot = 6 board feet
200 cubic-foot units = 1 bone-dry ton
1 bone-dry unit = 1.2 bone-dry tons

Board-foot lumber tally is the unit of measure used for lumber production; square feet, 3/8-inch basis for veneer and plywood production; square (100 square feet) for shake and shingle production; and board-foot "local scale" for log export and post, pole, and piling shipments.

Metric Conversions

1 cubic foot = 0.02832 cubic meter
1 ton = 907.1849 kilograms
1 square foot = 0.0929 square meter

Mill Residues

In this study no attempt was made to get individual mills to quantify the amount of residue produced. Although mills might be able to specify amounts of residue sold for high value uses (such as pulp chips), the lower value uses (such as mulch or fuel) are difficult to quantify. The mills were therefore asked to indicate only the percentage distribution of the disposal of their residues. These percentages were then applied to residue estimates derived through use of the following factors:

Softwood sawmill residue, white woods.[1] —Average quantity of residues developed from producing 1,000 board feet of lumber:

Item	Dry weight
	(Tons)
Wood residue:	
Slabs, edgings, sawmill trim	0.508
Planer trim	.038
Sawdust	.279
Planer shavings	.203
Total, wood residue	1.028
Bark	.285
Total, all residue	1.313

Softwood sawmill residue, redwood and incense-cedar.[2] —Average quantity of residues developed from producing 1,000 board feet of lumber:

Item	Dry weight
	(Tons)
Wood residue:	
Slabs, edgings, and trim	0.711
Sawdust	.225
Planer shavings	.154
Total, wood residue	1.090
Bark	.300
Total, all residue	1.390

[1] Based on data from Oregon mills compiled by Oregon State University, School of Forestry, in 1967. Dry weights adjusted for different species mix utilized in California, primarily ponderosa pine and Douglas-fir.

[2] Based on data from California mills from mill-scale studies made by the USDA Forest Service.

Softwood plywood residue.[3] —Average quantity of residue developed in producing the equivalent of 1,000 square feet of 3/8-inch plywood (rough basis):

Item	Solid volume[4]	Dry weight
	(Cubic feet)	(Tons)
Wood residue:		
Log trim	3.4	0.046
Cores	3.7	.050
Veneer clippings, roundup, and spur trim	18.5	.250
Dry trim and layup loss	6.5	.088
Sander dust	1.6	.022
Total, wood residue	33.7	.456
Bark	8.8	.132
Total, all residue	42.5	.588

Shingle mill residues.[5] —Average quantity of residue developed in utilizing 1,000 board feet of logs, Scribner scale, or in producing the equivalent volume of 10.5 squares:

Shake and shingle residue	Solid volume		Dry weight per MBM[6]
	(Cubic feet)	(Percent)	(Tons)
Shingles:			
Coarse	23	13.7	0.22
Fine	78	46.8	.75
Bark	19	11.5	.28
Shakes:			
Coarse	23	13.7	.22
Fine	24	14.5	.23
Bark	19	11.5	.28
Shingle and shake:			
Coarse	23	13.7	.22
Fine	51	30.6	.49
Bark	19	11.5	.28

[3] Based on data compiled by Oregon State University, School of Forestry, from Oregon mills in 1967. Because of the similarity of species used and mills, no adjustment was made in applying these data to California

[4] Based on equivalent green volume.

[5] From information provided by the Red Cedar Shingle Bureau, Bellevue, Washington.

[6] MBM = thousand feet board measure.

Apparent log receipts—The sum of a mill's log consumption and gain or loss in inventory.

Mill—An identifiable operation at one location. For example, a sawmill with a large log and a small log operation would be counted as two mills; also a sulfate and a groundwood pulping process at one location would be counted as two mills.

Off-site roundwood chips—Chips from logs that are processed at a chipping mill, not as part of a milling operation, then transported to the user.

Old-growth timber—Timber at least 100 years old.

Sound log—Number 3 saw logs and better in grade and having the following minimum specifications: 6-inch diameter, 12-foot length, 50-board foot net scale.

Utility log—Logs having the following minimum specifications: 6-inch diameter, 12-foot length, 50 percent or more of gross scale chippable.

Young-growth timber—Timber less than 100 years old.

Appendix II

All Industries (Tables 1-9)

Table 1—Number of mills by type of industry and resource area, California, 1982

RESOURCE AREA	ALL INDUSTRIES	LUMBER	VENEER AND PLYWOOD	PULP AND BOARD 1/	OTHER INDUSTRIES		
					SHAKE AND SHINGLE	EXPORT 2/	POST, PO AND PILI
NORTH COAST	54	39	3	5	4	3	--
CENTRAL COAST	5	4	--	1	--	--	--
NORTHERN INTERIOR	29	22	4	1	--	--	2
SACRAMENTO	29	22	2	3	--	1	1
SAN JOAQUIN	16	14	1	--	--	--	1
SOUTHERN	1	--	--	--	--	--	1
ALL AREAS	134	101	10	10	4	4	5

1/Each pulping process at a single location is considered an individual mill.

2/Represents the number of identifiable operations involved in the export trade.

Table 2—Wood consumption by mills, by type of material, resource area, and industry, California, 1982

RESOURCE AREA AND INDUSTRY	ROUNDWOOD			OTHER WOOD 1/	RESIDUE 2/
	ALL ROUNDWOOD	SOUND LOGS	UTILITY LOGS		
	- - - - - THOUSAND BOARD FEET, SCRIBNER LOG RULE - - - - -				TONS, DRY WEIGHT
NORTH COAST:					
LUMBER	991,282	928,130	63,152	--	--
VENEER AND PLYWOOD	41,520	38,790	2,730	--	--
PULP AND BOARD 3/	27,695	20,771	6,924	--	1,183,068
SHAKE AND SHINGLE	538	368	170	646	--
TOTAL	1,061,035	988,059	72,976	646	1,183,068
CENTRAL COAST:					
LUMBER	16,210	15,964	246	--	--
PULP AND BOARD 3/	--	--	--	--	--
TOTAL	16,210	15,964	246	--	--
NORTHERN INTERIOR:					
LUMBER	512,915	473,132	39,783	202	--
VENEER AND PLYWOOD	93,637	91,602	2,035	--	--
PULP AND BOARD 4/	--	--	--	--	329,800
TOTAL	606,552	564,734	41,818	202	329,800
SACRAMENTO:					
LUMBER	531,835	470,745	61,090	--	--
VENEER AND PLYWOOD 5/	23,233	22,842	391	--	--
PULP AND BOARD 4/	--	--	--	--	--
TOTAL	555,068	493,587	61,481	--	--
SAN JOAQUIN:					
LUMBER	318,535	310,981	7,554	--	--
VENEER AND PLYWOOD 5/	--	--	--	--	--
TOTAL	318,535	310,981	7,554	--	--
SOUTHERN	--	--	--	--	--
ALL AREAS:					
LUMBER	2,370,777	2,198,952	171,825	202	--
VENEER AND PLYWOOD	158,390	153,234	5,156	--	--
PULP AND BOARD	27,695	20,771	6,924	--	1,512,868
SHAKE AND SHINGLE	538	368	170	646	--
EXPORT 6/	29,874	29,874	--	--	--
POST, POLE, AND PILING 6/	11,538	11,538	--	--	--
TOTAL	2,598,812	2,414,737	184,075	848	1,512,868

1/Includes peeler cores and cants used by sawmills; blocks, boards, and bolts used by shake and shingle mills; and miscellaneous peeled products used by post, pole, and piling mills.

2/Includes residues from the sawmill, veneer and plywood, and shake and shingle industries, plus chips from roundwood chipping plants.

3/North Coast and Central Coast combined to avoid disclosure.

4/Northern Interior and Sacramento combined to avoid disclosure.

5/Sacramento and San Joaquin combined to avoid disclosure.

6/All resource areas combined to avoid disclosure.

Table 3—Log flows to mills by state, resource area, and industry, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND INDUSTRY	ALL STATES	CALIFORNIA	OREGON	WASHINGTON	OTHER
NORTH COAST:					
LUMBER	991,282	990,332	950	--	--
VENEER AND PLYWOOD	41,520	37,410	4,110	--	--
PULP AND BOARD	27,695	27,695	--	--	--
SHAKE AND SHINGLE	538	538	--	--	--
TOTAL	1,061,035	1,055,975	5,060	--	--
CENTRAL COAST:					
LUMBER	16,210	16,210	--	--	--
TOTAL	16,210	16,210	--	--	--
NORTHERN INTERIOR:					
LUMBER	512,915	505,488	7,427	--	--
VENEER AND PLYWOOD	93,637	93,637	--	--	--
TOTAL	606,552	599,125	7,427	--	--
SACRAMENTO:					
LUMBER	531,835	531,835	--	--	--
VENEER AND PLYWOOD 1/	23,233	23,233	--	--	--
TOTAL	555,068	555,068	--	--	--
SAN JOAQUIN:					
LUMBER	318,535	318,535	--	--	--
VENEER AND PLYWOOD 1/	--	--	--	--	--
TOTAL	318,535	318,535	--	--	--
SOUTHERN	--	--	--	--	--
ALL AREAS:					
LUMBER	2,370,777	2,362,400	8,377	--	--
VENEER AND PLYWOOD	158,390	154,280	4,110	--	--
PULP AND BOARD	27,695	27,695	--	--	--
SHAKE AND SHINGLE	538	538	--	--	--
EXPORT 2/	29,874	29,874	--	--	--
POST, POLE, AND PILING 2/	11,538	9,176	2,032	330	--
TOTAL	2,598,812	2,583,963	14,519	330	--

1/Sacramento and San Joaquin combined to avoid disclosure.

2/All resource areas combined to avoid disclosure.

Table 4—Log flows by county and out-of-state origins, resource area, and county of use, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	TOTAL	NORTH COAST				CENTRAL COAST				
		DEL NORTE	HUMBOLDT	MENDOCINO	SONOMA	MARIN	MONTEREY	SAN MATEO	SANTA CRUZ	OTHER
NORTH COAST:										
DEL NORTE	114,41[illegible]	91,[illegible]	18,[illegible]	-	--	--	--	--	--	--
HUMBOLDT	513,[illegible]	46,805	412,[illegible]	22,871	--	--	--	--	--	--
MENDOCINO	416,[illegible]	--	11,[illegible]	[illegible]	[illegible]	--	--	700	2,812	1,46[illegible]
SONOMA	43,093	-	--	33,076	[illegible]	225	--	--	300	22[illegible]
TOTAL	1,[illegible]	138,803	441,806	446,[illegible]	12,963	225	--	700	3,112	1,62[illegible]
CENTRAL COAST:										
CONTRA COSTA, MONTEREY, AND SANTA CRUZ 1/	16,[illegible]	--	-	-	--	-	10	4,250	11,960	--
TOTAL	16,[illegible]	--	--	--	--	-	10	4,250	11,960	--
NORTHERN INTERIOR										
LASSEN AND MODOC 1/	125,740	--	--	--	--	--	--	--	--	--
SHASTA	342,200	--	10,[illegible]	[illegible]	--	--	--	--	--	--
TRINITY AND TUOLUMNE 1/	141,[illegible]	--	[illegible]	--	--	-	--	--	--	--
TOTAL	609,069	--	14,[illegible]	[illegible]	--	--	--	--	--	--
SACRAMENTO										
BUTTE	[illegible]	--	--	--	--	--	--	[illegible]	-	--
EL DORADO, PLACER, AND SACRAMENTO 1/	110,[illegible]	--	--			-	--	--	--	--
NEVADA	44,[illegible]	--	--		--	--	--	--	--	--
PLUMAS AND SIERRA 1/	101,[illegible]	--	--	--	--	--	--	--	--	--
TEHAMA 2/	163,638	--	--	[illegible]	--	--	--	--	--	--
YUBA	47,649	--	--	--	-	--	--	--	--	--
TOTAL	557,435	--	--	[illegible]	--	--	--	--	--	--
SAN JOAQUIN:										
AMADOR, CALAVERAS, AND SAN JOAQUIN 1/	97,987	--	--	-	--	--	--	--	--	--
FRESNO AND MADERA 1/	81,004	--	--	--	--	--	--	--	--	--
KERN, LOS ANGELES, AND TULARE 1/	[illegible]	--	--	--	--	--	--	--	--	--
TUOLUMNE 2/	67,697	--	--	--	--	--	--	--	--	--
TOTAL	[illegible]	--	--	-	--	--	--	-	--	--
SOUTHERN 3/	--	--	--	--	--	--	--	--	--	--
ALL AREAS	2,[illegible]	138,[illegible]	45[illegible]	44[illegible]	12,963	225	10	4,950	15,062	1,625

See footnotes at end of table.

Table 4—Log flows by county and out-of-state origins, resource area, and county of use, California, 1982 (continued)

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	NORTHERN INTERIOR					SACRAMENTO										
	LASSEN	MODOC	SHASTA	SISKIYOU	TRINITY	BUTTE	EL DORADO	GLENN	LAKE	NEVADA	PLACER	PLUMAS	SACRAMENTO	SIERRA	SUTTER	TEHAMA
NORTH COAST:																
DEL NORTE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HUMBOLDT	--	--	--	--	30,984	--	--	--	--	--	--	--	--	--	--	--
MENDOCINO	--	--	--	--	--	--	--	--	7,875	--	--	--	--	--	--	--
SONOMA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	30,984	--	--	--	7,875	--	--	--	--	--	--	--
CENTRAL COAST:																
CONTRA COSTA, MONTEREY, AND SANTA CRUZ 1/	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN INTERIOR:																
LASSEN AND MODOC 1/	53,344	27,616	1,984	--	--	--	4,620	--	--	--	--	35,280	--	210	--	--
SHASTA	58,386	5,940	110,719	59,266	61,866	--	--	194	--	--	--	20,354	--	--	--	14,933
SISKIYOU AND TRINITY 1/	3,811	481	8,837	47,938	66,968	--	--	--	--	--	--	760	--	--	--	1,465
TOTAL	115,541	34,037	121,540	107,204	128,834	--	4,620	194	--	--	--	56,394	--	210	--	16,398
SACRAMENTO:																
BUTTE	--	--	--	--	--	25,252	--	5,416	--	5,418	--	17,647	200	--	2,709	1,228
EL DORADO, PLACER, AND SACRAMENTO 1/	--	--	--	--	--	--	67,944	--	--	2,271	31,567	--	--	--	--	--
NEVADA	--	--	--	--	--	--	5,781	--	--	17,557	17,345	1,751	--	--	--	--
PLUMAS AND SIERRA 1/	26,445	--	--	--	--	--	--	--	--	--	3,225	76,704	--	6,010	--	19,200
TEHAMA 2/	--	--	6,423	--	--	27,026	--	3,211	--	--	--	--	--	--	--	111,355
YUBA	--	--	--	--	--	8,859	4,420	--	--	3,136	10,402	12,753	--	7,910	--	169
TOTAL	26,445	--	6,423	--	--	61,139	78,145	8,629	--	28,382	62,539	108,305	200	13,920	2,709	131,952
SAN JOAQUIN:																
AMADOR, CALAVERAS, AND SAN JOAQUIN 1/	--	--	--	--	--	--	19,372	--	--	660	132	--	--	--	--	--
FRESNO AND MADERA 1/	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
KERN, LOS ANGELES, AND TULARE 1/	--	--	2,439	--	1,423	--	--	--	--	--	--	--	--	--	--	--
TUOLUMNE 2/	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	2,439	--	1,423	--	19,372	--	--	660	132	--	--	--	--	--
SOUTHERN 3/	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS	141,986	34,037	130,402	107,204	161,241	61,139	102,137	8,823	7,875	29,042	62,671	164,699	200	14,130	2,709	148,350

See footnotes at end of table.

Table 4—Log flows by county and out-of-state origins, resource area, and county of use, California, 1982 (continued)

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	SACRAMENTO (CONTINUED)		SAN JOAQUIN										OUT-OF-STATE
	YOLO	YUBA	AMADOR	CALAVERAS	FRESNO	KERN	MADERA	MARIPOSA	STANISLAUS	TULARE	TUOLUMNE	INY	
NORTH COAST:													
DEL NORTE	--	-	-	--	--	-	--	--	--	--	-	--	4,110
HUMBOLDT	-	--	-	--	--	--	--	-	--	--	--	--	950
MENDOCINO	-	-	--	--	--	--	--	-	--	-	--	--	-
SONOMA	213	-	--	--	--	--	--	-	--	--	--	--	-
TOTAL	213	--	--	-	-	-	--	--	--	--	--	--	5,060
CENTRAL COAST:													
CONTRA COSTA, MONTEREY, AND SANTA CRUZ 1/	--	-	--	--	-	--	--	--	--	--	--	--	--
TOTAL	--	--	-	--	--	-	-	--	--	--	--	-	--
NORTHERN INTERIOR													
LASSEN AND MODOC 1/				--	--			-	--	-	--	1,680	1,006
SHASTA	-	-	--	--	-	-	-	--	--	-	--	--	--
SISKIYOU AND TRINITY 1/	-	-	--	-	--	--	--	--	--	--	--	-	6,600
TOTAL			--	--	--	--	--	--	--	--	--	1,680	7,606
SACRAMENTO:													
BUTTE	--	4,496	--	--	--	--	-	-	--	--	--	--	--
EL DORADO, PLACER, AND SACRAMENTO 1	-	-	--	--	--	--	--	--	8,530	--	--	--	--
NEVADA	-	1,751	-	--	-	--	--	--	--	--	--	--	--
PLUMAS AND SIERRA 1	--	-	-	--	--	--	--	--	--	--	--	--	--
TEHAMA 2/	--	--	-	--	--	--	--	--	--	--	14,765	--	--
YUBA	-	-	--	--	-	--	--	--	--	--	--	--	--
TOTAL	--	4,496	-	--	--	--	--	--	8,530	--	14,765	--	--
SAN JOAQUIN:													
AMADOR, CALAVERAS, AND SAN JOAQUIN 1/	--	--	31,453	41,390	3,000	--	--	-	--	--	--	--	1,980
FRESNO AND MADERA 1/	--	--	--	--	58,836	-	16,260	5,908	--	--	--	--	--
KERN, LOS ANGELES, AND TULARE 1/	-	--	--	--	10,030	4,803	542	1,084	--	57,401	--	1,287	203
TUOLUMNE 2/	--	--	--	--	--	--	--	680	20,139	--	46,878	--	--
TOTAL	-	-	31,453	41,390	71,866	4,803	16,802	7,672	20,139	57,401	46,878	1,287	2,183
SOUTHERN 3/	--	-	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS	213	4,496	31,453	41,390	71,866	4,803	16,802	7,672	28,669	57,401	61,643	2,967	14,849

1/Combined to avoid disclosure.

2/Tehama County includes one veneer and plywood mill from Tuolumne County, combined to avoid disclosure.

3/Los Angeles County combined with Kern and Tulare Counties to avoid disclosure.

Table 5—Log flows to mills from National Forests, by resource area and county of use, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	ALL FORESTS	EL DORADO	INYO	KLAMATH	LASSEN	MENDOCINO	MODOC	SIX RIVERS	PLUMAS
NORTH COAST:									
DEL NORTE	4,110	--	--	--	--	--	--	4,110	--
HUMBOLDT	96,706	--	--	6,373	--	--	--	78,138	--
MENDOCINO	5,420	--	--	--	--	5,420	--	--	--
SONOMA	--	--	--	--	--	--	--	--	--
TOTAL	106,236	--	--	6,373	--	5,420	--	82,248	--
CENTRAL COAST	--	--	--	--	--	--	--	--	--
NORTHERN INTERIOR:									
LASSEN AND MODOC 1/	86,043	5,607	1,869	--	24,820	--	24,053	--	29,694
SHASTA	115,862	--	--	--	19,340	14,383	1,833	1,148	19,988
SISKIYOU AND TRINITY 1/	73,386	--	--	23,435	1,927	1,474	--	1,739	875
TOTAL	275,291	5,607	1,869	23,435	46,087	15,857	25,886	2,887	50,557
SACRAMENTO:									
BUTTE	11,467	--	--	--	--	1,084	--	--	5,527
EL DORADO, PLACER, AND SACRAMENTO 1/	52,132	33,088	--	--	--	--	--	--	--
NEVADA	22,854	3,153	--	--	--	--	--	--	--
PLUMAS AND SIERRA 1/	75,160	--	--	--	13,522	--	--	--	53,630
TEHAMA 2/	29,238	--	--	--	--	13,957	--	--	--
YUBA	27,472	4,273	--	--	--	--	--	--	7,363
TOTAL	218,343	40,514	--	--	13,522	15,041	--	--	66,520
SAN JOAQUIN:									
AMADOR, CALAVERAS, AND SAN JOAQUIN 1/	24,260	16,023	--	--	--	--	--	--	--
FRESNO AND MADERA 1/	67,104	--	--	--	--	--	--	--	--
KERN, LOS ANGELES, AND TULARE 1/	68,128	--	1,287	--	--	--	--	--	--
TUOLUMNE 2/	59,270	--	--	--	--	--	--	--	--
TOTAL	203,955	16,023	1,287	--	--	--	--	--	--
SOUTHERN 3/	--	--	--	--	--	--	--	--	--
ALL AREAS	803,825	62,144	3,156	29,808	59,609	36,318	25,886	85,135	117,077

See footnotes at end of table.

Table 5—Log flows to mills from National Forests, by resource area and county of use, California, 1982 (continued)

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	SEQUOIA	SHASTA-TRINITY	SIERRA	STANISLAUS	TAHOE	OUT-OF-STATE FORESTS
NORTH COAST:						
DEL NORTE	--	--	--	--	--	--
HUMBOLDT	--	11,245	--	--	--	950
MENDOCINO	--	--	--	--	--	--
SONOMA	--	--	--	--	--	--
TOTAL	--	11,245	--	--	--	950
CENTRAL COAST	--	--	--	--	--	--
NORTHERN INTERIOR:						
LASSEN AND MODOC 1/	--	--	--	--	--	--
SHASTA	--	59,170	--	--	--	--
SISKIYOU AND TRINITY 1/	--	42,973	--	--	--	963
TOTAL	--	102,143	--	--	--	963
SACRAMENTO:						
BUTTE	--	--	--	--	4,876	--
EL DORADO, PLACER, AND SACRAMENTO 1/	--	--	--	10,236	8,808	--
NEVADA	--	--	--	--	19,701	--
PLUMAS AND SIERRA 1/	--	--	--	--	8,008	--
TEHAMA 2/	--	6,423	--	8,858	--	--
YUBA	--	--	--	--	15,836	--
TOTAL	--	6,423	--	19,094	57,229	--
SAN JOAQUIN:						
AMADOR, CALAVERAS, AND SAN JOAQUIN 1/	--	--	--	8,072	--	165
FRESNO AND MADERA 1/	--	--	67,104	--	--	--
KERN, LOS ANGELES, AND TULARE 1/	60,920	--	5,921	--	--	--
TUOLUMNE 2/	--	--	--	44,463	--	--
TOTAL	60,920	--	73,025	52,535	--	165
SOUTHERN 3/	--	--	--	--	--	--
ALL AREAS	60,920	119,811	73,025	71,629	57,229	2,078

1/Combined to avoid disclosure.

2/Tehama County includes one veneer and plywood mill from Tuolume County, combined to avoid disclosure.

3/Los Angeles County combined with Kern and Tulare Counties to avoid disclosure.

Table 6—Log flows to mills from National Forests, by resource area and county of use, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	ALL FORESTS	EL DORADO	INYO	KLAMATH	LASSEN	MENDOCINO	MODOC	SIX RIVERS	PLUMAS
NORTH COAST:									
LUMBER	97,950	--	--	6,373	--	5,420	--	75,416	--
VENEER AND PLYWOOD	4,110	--	--	--	--	--	--	4,110	--
PULP AND BOARD	4,154	--	--	--	--	--	--	2,700	--
SHAKE AND SHINGLE	22	--	--	--	--	--	--	22	--
TOTAL	106,236	--	--	6,373	--	5,420	--	82,248	--
CENTRAL COAST	--	--	--	--	--	--	--	--	--
NORTHERN INTERIOR:									
LUMBER	259,956	5,607	1,869	16,159	42,082	15,857	25,575	2,887	50,557
VENEER AND PLYWOOD	15,335	--	--	7,276	3,105	--	311	--	--
TOTAL	275,291	5,607	1,869	23,435	46,087	15,857	25,886	2,887	50,557
SACRAMENTO:									
LUMBER	208,900	40,163	--	--	13,522	15,041	--	--	66,520
VENEER AND PLYWOOD 1/	9,443	351	--	--	--	--	--	--	--
TOTAL	218,343	40,514	--	--	13,522	15,041	--	--	66,520
SAN JOAQUIN:									
LUMBER	203,790	16,023	1,287	--	--	--	--	--	--
VENEER AND PLYWOOD 1/	--	--	--	--	--	--	--	--	--
TOTAL	203,790	16,023	1,287	--	--	--	--	--	--
SOUTHERN	--	--	--	--	--	--	--	--	--
ALL MILLS:									
LUMBER	770,596	61,793	3,156	22,532	56,504	36,318	25,575	78,303	117,077
VENEER AND PLYWOOD	28,888	351	--	7,276	3,105	--	311	4,110	--
PULP AND BOARD	4,154	--	--	--	--	--	--	2,700	--
SHAKE AND SHINGLE	22	--	--	--	--	--	--	22	--
EXPORT 2/	--	--	--	--	--	--	--	--	--
POST, POLE, AND PILING 2/	165	--	--	--	--	--	--	--	--
TOTAL	803,825	62,144	3,156	29,808	59,609	36,318	25,886	85,135	117,077

See footnotes at end of table.

Table 6—Log flows to mills from National Forests, by resource area and county of use, California, 1982 (continued)

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	SEQUOIA	SHASTA-TRINITY	SIERRA	STANISLAUS	TAHOE	OUT-OF-STATE FORESTS
NORTH COAST:						
LUMBER	--	9,791	--	--	--	950
VENEER AND PLYWOOD	--	--	--	--	--	--
PULP AND BOARD	--	1,454	--	--	--	--
SHAKE AND SHINGLE	--	--	--	--	--	--
TOTAL	--	11,245	--	--	--	950
CENTRAL COAST	--	--	--	--	--	--
NORTHERN INTERIOR:						
LUMBER	--	97,500	--	--	--	963
VENEER AND PLYWOOD	--	4,643	--	--	--	--
TOTAL	--	102,143	--	--	--	963
SACRAMENTO:						
LUMBER	--	6,423	--	10,002	57,229	--
VENEER AND PLYWOOD 1/	--	--	--	9,092	--	--
TOTAL	--	6,423	--	19,094	57,229	--
SAN JOAQUIN:						
LUMBER	60,920	--	73,025	52,535	--	--
VENEER AND PLYWOOD 1/	--	--	--	--	--	--
TOTAL	60,920	--	73,025	52,535	--	--
SOUTHERN	--	--	--	--	--	--
ALL MILLS:						
LUMBER	60,920	113,714	73,025	62,537	57,229	1,913
VENEER AND PLYWOOD	--	4,643	--	9,092	--	--
PULP AND BOARD	--	1,454	--	--	--	--
SHAKE AND SHINGLE	--	--	--	--	--	--
EXPORT 2/	--	--	--	--	--	--
POST, POLE, AND PILING 2/	--	--	--	--	--	165
TOTAL	60,920	119,811	73,025	71,629	57,229	2,078

1/Sacramento and San Joaquin combined to avoid disclosure.

2/All resource areas combined to avoid disclosure.

Table 7—Log consumption by mills, by ownership class, resource area, and industry, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND INDUSTRY	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY		OTHER PRIVATE
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
NORTH COAST:								
LUMBER	991,282	29,824	97,950	8,882	10,371	672,427	88,219	83,609
VENEER AND PLYWOOD	41,520	--	4,110	--	--	27,610	8,905	895
PULP AND BOARD	27,695	--	4,154	--	--	--	23,541	--
SHAKE AND SHINGLE	538	--	22	--	22	--	381	113
TOTAL	1,061,035	29,824	106,236	8,882	10,393	700,037	121,046	84,617
CENTRAL COAST:								
LUMBER	16,210	--	--	--	--	675	--	15,535
TOTAL	16,210	--	--	--	--	675	--	15,535
NORTHERN INTERIOR:								
LUMBER	512,915	12,133	259,956	1,815	--	123,374	76,505	39,132
VENEER AND PLYWOOD	93,637	--	15,335	130	--	32,909	42,538	2,725
TOTAL	606,552	12,133	275,291	1,945	--	156,283	119,043	41,857
SACRAMENTO:								
LUMBER	531,835	1,333	208,900	1,313	--	216,067	38,961	65,261
VENEER AND PLYWOOD 1/	23,233	--	9,443	--	--	13,725	--	65
TOTAL	555,068	1,333	218,343	1,313	--	229,792	38,961	65,326
SAN JOAQUIN:								
LUMBER	318,535	3,524	203,790	--	--	84,131	15,000	12,090
VENEER AND PLYWOOD 1/	--	--	--	--	--	--	--	--
TOTAL	318,535	3,524	203,790	--	--	84,131	15,000	12,090
SOUTHERN	--	--	--	--	--	--	--	--
ALL AREAS:								
LUMBER	2,370,777	46,814	770,596	12,010	10,371	1,096,674	218,685	215,627
VENEER AND PLYWOOD	158,390	--	28,888	130	--	74,244	51,443	3,685
PULP AND BOARD	27,695	--	4,154	--	--	--	23,541	--
SHAKE AND SHINGLE	538	--	22	--	22	—	381	113
EXPORT 2/	29,874	150	--	300	--	640	28,413	371
POST, POLE, AND PILING 2/	11,538	--	165	165	--	119	6,306	4,783
TOTAL	2,598,812	46,964	803,825	12,605	10,393	1,171,677	328,769	224,579

1/Sacramento and San Joaquin combined to avoid disclosure.

2/All resource areas combined to avoid disclosure.

able 8—Log consumption by mills, by species, resource area, and industry, alifornia, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

SOURCE AREA D INDUSTRY	ALL SPECIES	DOUGLAS-FIR	REDWOOD	TRUE FIRS	SUGAR PINE	PONDEROSA PINE	LODGEPOLE PINE	INCENSE-CEDAR	OTHER SOFTWOODS	HARDWOODS
RTH COAST:										
LUMBER	991,282	336,281	611,971	24,041	4,200	11,030	--	971	1,536	1,252
VENEER AND PLYWOOD	41,520	30,289	5,596	2,740	--	--	--	--	2,895	--
PULP AND BOARD	27,695	--	--	23,541	--	--	--	--	--	4,154
SHAKE AND SHINGLE	538	--	--	--	--	--	--	360	178	--
TOTAL	1,061,035	366,570	617,567	50,322	4,200	11,030	--	1,331	4,609	5,406
NTRAL COAST:										
LUMBER	16,210	1,770	12,353	--	--	--	--	2,080	7	--
TOTAL	16,210	1,770	12,353	--	--	--	--	2,080	7	--
RTHERN INTERIOR:										
LUMBER	512,915	96,201	--	85,356	56,916	237,875	2,593	33,284	490	200
VENEER AND PLYWOOD	93,637	13,784	--	76,244	462	2,685	462	--	--	--
TOTAL	606,552	109,985	--	161,600	57,378	240,560	3,055	33,284	490	200
CRAMENTO:										
LUMBER	531,835	88,800	--	178,745	68,573	161,410	--	30,247	60	4,000
VENEER AND PLYWOOD 1/	23,233	3,910	--	18,692	13	586	32	--	--	--
TOTAL	555,068	92,710	--	197,437	68,586	161,996	32	30,247	60	4,000
N JOAQUIN:										
LUMBER	318,535	10,763	--	117,029	48,815	106,040	2,521	33,330	37	--
VENEER AND PLYWOOD 1/	--	--	--	--	--	--	--	--	--	--
TOTAL	318,535	10,763	--	117,029	48,815	106,040	2,521	33,330	37	--
UTHERN	--	--	--	--	--	--	--	--	--	--
. AREAS:										
LUMBER	2,370,777	533,815	624,324	405,171	178,504	516,355	5,114	99,912	2,130	5,452
VENEER AND PLYWOOD	158,390	47,983	5,596	97,676	475	3,271	494	--	2,895	--
PULP AND BOARD	27,695	--	--	23,541	--	--	--	--	--	4,154
SHAKE AND SHINGLE	538	--	--	--	--	--	--	360	178	--
EXPORT 2/	29,874	3,071	2,500	21,013	71	107	--	71	3,041	--
POST, POLE, AND PILING 2/	11,538	9,583	--	--	--	1,710	245	--	--	--
TOTAL	2,598,812	594,452	632,420	547,401	179,050	521,443	5,853	100,343	8,244	9,606

acramento and San Joaquin combined to avoid disclosure.

11 resource areas combined to avoid disclosure.

Table 9—Production and disposition of wood and bark residue by mills, by use, resource area, and residue-producing industry, California, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND RESIDUE-PRODUCING INDUSTRY	ALL RESIDUE	WOOD RESIDUE					
		ALL WOOD	USED 1/				UNUSED
			TOTAL	PULP AND BOARD	FUEL	MISCELLANEOUS	
NORTH COAST:							
LUMBER	1,721,572	1,332,082	1,294,955	650,365	568,321	76,269	37,127
VENEER AND PLYWOOD	65,633	50,089	50,089	42,230	2,275	5,584	--
SHAKE AND SHINGLE	837	697	695	--	128	567	2
TOTAL	1,788,042	1,382,868	1,345,739	692,595	570,724	82,420	37,129
CENTRAL COAST:							
LUMBER	28,143	21,658	21,658	6,211	3,113	12,334	--
TOTAL	28,143	21,658	21,658	6,211	3,113	12,334	--
NORTHERN INTERIOR:							
LUMBER	805,580	625,243	620,293	316,556	303,517	220	4,950
VENEER AND PLYWOOD	142,211	111,492	111,492	74,512	17,012	19,968	--
TOTAL	947,791	736,735	731,785	391,068	320,529	20,188	4,950
SACRAMENTO:							
LUMBER	838,819	650,136	647,495	269,666	352,266	25,563	2,641
VENEER AND PLYWOOD 2/	35,288	27,671	27,671	666	22,155	4,850	--
TOTAL	874,107	677,807	675,166	270,332	374,421	30,413	2,641
SAN JOAQUIN:							
LUMBER	455,726	351,242	351,242	215,418	65,525	70,299	--
VENEER AND PLYWOOD 2/	--	--	--	--	--	--	--
TOTAL	455,726	351,242	351,242	215,418	65,525	70,299	--
SOUTHERN	--	--	--	--	--	--	--
ALL AREAS:							
LUMBER	3,849,840	2,980,361	2,935,643	1,458,216	1,292,742	184,685	44,718
VENEER AND PLYWOOD	243,132	189,252	189,252	117,408	41,442	30,402	--
SHAKE AND SHINGLE	837	697	695	--	128	567	2
TOTAL	4,093,809	3,170,310	3,125,590	1,575,624	1,334,312	215,654	44,720

See footnotes at end of table.

Table 9—Production and disposition of wood and bark residue by mills, by use, resource area, and residue-producing industry, California, 1982 (continued)

(TONS, DRY WEIGHT)

RESOURCE AREA AND RESIDUE-PRODUCING INDUSTRY	BARK RESIDUE					
	ALL BARK	USED 1/				UNUSED
		TOTAL	PULP AND BOARD	FUEL	MISCELLANEOUS	
NORTH COAST:						
LUMBER	389,490	374,004	556	289,980	83,468	15,486
VENEER AND PLYWOOD	15,544	15,544	--	15,544	--	--
SHAKE AND SHINGLE	140	139	--	100	39	1
TOTAL	405,174	389,687	556	305,624	83,507	15,487
CENTRAL COAST:						
LUMBER	6,485	4,689	--	989	3,700	1,796
TOTAL	6,485	4,689	--	989	3,700	1,796
NORTHERN INTERIOR:						
LUMBER	180,337	177,338	--	153,900	23,438	2,999
VENEER AND PLYWOOD	30,719	30,719	--	30,719	--	--
TOTAL	211,056	208,057	--	184,619	23,438	2,999
SACRAMENTO:						
LUMBER	188,683	188,125	--	106,955	81,170	558
VENEER AND PLYWOOD 2/	7,617	7,617	--	7,549	68	--
TOTAL	196,300	195,742	--	114,504	81,238	558
SAN JOAQUIN:						
LUMBER	104,484	104,484	5,419	34,004	65,061	--
VENEER AND PLYWOOD 2/	--	--	--	--	--	--
TOTAL	104,484	104,484	5,419	34,004	65,061	--
SOUTHERN	--	--	--	--	--	--
ALL AREAS:						
LUMBER	869,479	848,640	5,975	585,828	256,837	20,839
VENEER AND PLYWOOD	53,880	53,880	--	53,812	68	--
SHAKE AND SHINGLE	140	139	--	100	39	1
TOTAL	923,499	902,659	5,975	639,740	256,944	20,840

1/Residues are not necessarily used in the area in which they are produced; included are residues exported from California.

2/Sacramento and San Joaquin combined to avoid disclosure.

Table 10—Number of sawmills by mill-size class, resource area, and county, California, 1982

RESOURCE AREA AND COUNTY	ALL CLASSES	MILL-SIZE CLASS 1/			
		D	C	B	A
NORTH COAST:					
DEL NORTE	4	1	--	2	1
HUMBOLDT	19	1	1	3	14
MENDOCINO	11	--	--	2	9
SONOMA	5	1	3	--	1
TOTAL	39	3	4	7	25
CENTRAL COAST:					
MONTEREY	1	1	--	--	--
SANTA CRUZ	3	--	2	1	--
TOTAL	4	1	2	1	--
NORTHERN INTERIOR:					
LASSEN	4	--	1	2	1
MODOC	2	--	1	--	1
SHASTA	10	2	1	2	5
SISKIYOU	4	--	--	2	2
TRINITY	2	--	--	--	2
TOTAL	22	2	3	6	11
SACRAMENTO:					
BUTTE	4	3	--	--	1
EL DORADO	2	--	--	1	1
NEVADA	3	1	--	2	--
PLACER	2	--	--	1	1
PLUMAS	4	--	--	1	3
SIERRA	1	--	--	--	1
TEHAMA	3	--	--	1	2
YUBA	3	--	--	3	--
TOTAL	22	4	--	9	9
SAN JOAQUIN:					
AMADOR	2	--	--	--	2
CALAVERAS	1	--	--	1	--
FRESNO	2	1	--	--	1
KERN	1	--	--	1	--
MADERA	2	--	--	2	--
TULARE	2	--	--	--	2
TUOLUMNE	4	--	1	1	2
TOTAL	14	1	1	5	7
SOUTHERN	--	--	--	--	--
ALL AREAS	101	11	10	28	52

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 11—Installed 8-hour capacity of sawmills by mill-size class, resource area, and county, California, 1982

(THOUSAND BOARD FEET, LUMBER TALLY)

RESOURCE AREA AND COUNTY	ALL CLASSES	MILL-SIZE CLASS 1/			
		D	C	B	A
NORTH COAST:					
DEL NORTE	320	30	--	170	120
HUMBOLDT	2,760	2	60	280	2,418
MENDOCINO	1,780	--	--	215	1,565
SONOMA	352	7	145	--	200
TOTAL	5,212	39	205	665	4,303
CENTRAL COAST:					
MONTEREY	2	2	--	--	--
SANTA CRUZ	170	--	90	80	--
TOTAL	172	2	90	80	--
NORTHERN INTERIOR:					
LASSEN	505	--	65	190	250
MODOC	185	--	60	--	125
SHASTA	1,063	45	40	200	778
SISKIYOU	490	--	--	210	280
TRINITY	300	--	--	--	300
TOTAL	2,543	45	165	600	1,733
SACRAMENTO:					
BUTTE	274	44	--	--	230
EL DORADO	310	--	--	90	220
NEVADA	202	2	--	200	--
PLACER	442	--	--	100	342
PLUMAS	580	--	--	80	500
SIERRA	140	--	--	--	140
TEHAMA	508	--	--	100	408
YUBA	290	--	--	290	--
TOTAL	2,746	46	--	860	1,840
SAN JOAQUIN:					
AMADOR	305	--	--	--	305
CALAVERAS	100	--	--	100	--
FRESNO	260	10	--	--	250
KERN	101	--	--	101	--
MADERA	200	--	--	200	--
TULARE	319	--	--	--	319
TUOLUMNE	517	--	60	80	377
TOTAL	1,802	10	60	481	1,251
SOUTHERN	--	--	--	--	--
ALL AREAS	12,475	142	520	2,686	9,127

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 12—Number of sawmills by mill-size class, resource area, and selected equipment, California, 1982

RESOURCE AREA AND SELECTED EQUIPMENT	ALL CLASSES	MILL-SIZE CLASS 1/			
		D	C	B	A
NORTH COAST:					
BARKER	35	--	3	7	25
CHIPPER	35	1	4	6	24
PLANER	33	2	3	7	21
BURNER	5	1	--	2	2
KILN	16	2	--	2	12
CENTRAL COAST:					
BARKER	1	--	1	--	--
CHIPPER	2	--	1	1	--
PLANER	4	1	2	1	--
BURNER	--	--	--	--	--
KILN	--	--	--	--	--
NORTHERN INTERIOR:					
BARKER	17	2	--	5	10
CHIPPER	19	2	1	6	10
PLANER	14	--	1	3	10
BURNER	2	--	2	--	--
KILN	11	--	--	3	8
SACRAMENTO:					
BARKER	18	--	--	9	9
CHIPPER	17	1	--	7	9
PLANER	20	3	--	9	8
BURNER	2	--	--	2	--
KILN	16	--	--	8	8
SAN JOAQUIN:					
BARKER	13	--	1	5	7
CHIPPER	13	--	1	5	7
PLANER	8	--	--	3	5
BURNER	--	--	--	--	--
KILN	9	--	--	4	5
SOUTHERN	--	--	--	--	--
ALL AREAS:					
BARKER	84	2	5	26	51
CHIPPER	86	4	7	25	50
PLANER	79	6	6	23	44
BURNER	9	1	2	4	2
KILN	52	2	--	17	33

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 13—Number of sawmills by selected equipment, resource area, and county, California, 1982

RESOURCE AREA AND COUNTY	BARKER	CHIPPER	PLANER	BURNER	KILN
NORTH COAST:					
DEL NORTE	3	4	2	2	1
HUMBOLDT	17	16	15	1	8
MENDOCINO	11	11	11	2	5
SONOMA	4	4	5	--	2
TOTAL	35	35	33	5	16
CENTRAL COAST:					
MONTEREY	--	--	1	--	--
SANTA CRUZ	1	2	3	--	--
TOTAL	1	2	4	--	--
NORTHERN INTERIOR:					
LASSEN	3	3	3	1	3
MODOC	--	--	2	1	1
SHASTA	9	10	6	--	6
SISKIYOU	3	4	1	--	--
TRINITY	2	2	2	--	1
TOTAL	17	19	14	2	11
SACRAMENTO:					
BUTTE	1	2	4	--	1
EL DORADO	2	1	2	--	2
NEVADA	2	2	2	--	2
PLACER	2	2	1	1	1
PLUMAS	4	4	4	--	3
SIERRA	1	1	1	--	1
TEHAMA	3	2	3	1	3
YUBA	3	3	3	--	3
TOTAL	18	17	20	2	16
SAN JOAQUIN:					
AMADOR	2	2	1	--	1
CALAVERAS	1	1	--	--	--
FRESNO	1	1	--	--	1
KERN	1	1	1	--	1
MADERA	2	2	2	--	2
TULARE	2	2	2	--	2
TUOLUME	4	4	2	--	2
TOTAL	13	13	8	--	9
SOUTHERN	--	--	--	--	--
ALL AREAS	84	86	79	9	52

Table 14—Number of sawmills by type and size of headrig, resource area, and mill-size class, California, 1982

RESOURCE AREA AND MILL-SIZE CLASS 2/	CIRCULAR SAW					BAND SAW					GANG SAW			CHIPPING SAW			SCRAGG DOUBLE-CUT SAW		
	2 ft	4 ft	6 ft	8 ft	10+ ft	2 ft	4 ft	6 ft	8 ft	10+ ft	2 ft	3 ft	4 ft	2 ft	3 ft	4 ft	2 ft	3 ft	4 ft
NORTH COAST:																			
D	--	2	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	--	3	1	--	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	1	5	1	--	--	1	--	--	--	--	--	--	--
A	--	--	--	1	--	--	2	11	9	1	2	1	--	--	--	--	--	--	--
TOTAL	--	2	1	1	--	--	3	19	11	1	2	2	--	--	--	--	--	--	--
CENTRAL COAST:																			
D	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	1	1	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--
NORTHERN INTERIOR:																			
D	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
C	--	1	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	1	4	1	--	--	--	--	--	--	--	--	--	--
A	--	--	--	--	--	1	1	5	2	2	--	--	--	--	--	--	--	--	--
TOTAL	--	2	--	--	--	1	2	9	6	2	--	--	--	--	--	--	--	--	--
SACRAMENTO:																			
D	--	--	3	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B	--	--	--	--	--	--	--	7	2	--	1	--	--	--	--	--	--	--	--
A	--	--	--	--	--	1	--	5	3	--	--	1	--	--	--	--	--	--	--
TOTAL	--	--	3	--	--	1	--	13	5	--	1	1	--	--	--	--	--	--	--
SAN JOAQUIN:																			
D	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
B	--	--	1	--	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--
A	--	--	1	--	--	--	--	5	1	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	3	--	--	--	--	9	1	1	--	--	--	--	--	--	--	--	--
SOUTHERN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS:																			
D	--	4	5	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--
C	--	1	1	--	--	--	--	4	3	1	--	--	--	--	--	--	--	--	--
B	--	--	1	--	--	--	2	21	4	--	1	1	--	--	--	--	--	--	--
A	--	--	1	1	--	2	3	26	15	3	2	2	--	--	--	--	--	--	--
TOTAL	--	5	8	1	--	2	5	52	23	4	3	3	--	--	--	--	--	--	--

1/Headrig sizes are upper limits; for example, the 6-foot size class includes 49 through 72 inches.

2/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 15—Number of sawmills by tenure of present owner, mill-size class, and years at present site, California, 1982

MILL-SIZE CLASS 1/ AND YEARS AT PRESENT SITE	ALL MILLS	TENURE OF PRESENT OWNER (YEARS)				
		0-2	3-5	6-10	11-20	21 PLUS
D:						
6-10	3	--	--	3	--	--
11-20	4	--	1	--	3	--
21 PLUS	4	1	--	--	--	3
TOTAL	11	1	1	3	3	3
C:						
0-2	2	1	--	--	--	1
6-10	1	1	--	--	--	--
11-20	1	--	--	1	--	--
21 PLUS	6	--	1	--	--	5
TOTAL	10	2	1	1	--	6
B:						
6-10	3	2	--	1	--	--
11-20	8	--	2	2	3	1
21 PLUS	17	1	2	5	4	5
TOTAL	28	3	4	8	7	6
A:						
3-5	2	--	2	--	--	--
6-10	4	--	--	4	--	--
11-20	10	2	1	1	6	--
21 PLUS	36	--	3	14	7	12
TOTAL	52	2	6	19	13	12
ALL CLASSES:						
0-2	2	1	--	--	--	1
3-5	2	--	2	--	--	--
6-10	11	3	--	8	--	--
11-20	23	2	4	4	12	1
21 PLUS	63	2	6	19	11	25
TOTAL	101	8	12	31	23	27

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 16—Average number of operating days per year by sawmills, by mill-size class and resource area, California, 1982

RESOURCE AREA	ALL CLASSES	MILL-SIZE CLASS 1/			
		D	C	B	A
NORTH COAST	196	139	175	188	208
CENTRAL COAST	156	130	167	160	--
NORTHERN INTERIOR	184	235	86	191	198
SACRAMENTO	191	186	--	195	190
SAN JOAQUIN	186	45	156	216	189
SOUTHERN	--	--	--	--	--
ALL AREAS	189	164	145	195	200

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

Table 17—Wood consumption by sawmills, by type of material, resource area, and mill-size class, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL WOOD	ROUNDWOOD			OTHER WOOD	
		ALL ROUNDWOOD	SOUND LOGS	UTILITY LOGS	PEELER CORES	CANTS
NORTH COAST:						
D	1,400	1,400	1,387	13	--	--
C	14,093	14,093	13,633	460	--	--
B	91,783	91,783	84,527	7,256	--	--
A	884,006	884,006	828,583	55,423	--	--
TOTAL	991,282	991,282	928,130	63,152	--	--
CENTRAL COAST:						
D, C, AND B 2/	16,210	16,210	15,964	246	--	--
TOTAL	16,210	16,210	15,964	246	--	--
NORTHERN INTERIOR:						
D AND C 2/	15,920	15,920	13,089	2,831	--	--
B	98,241	98,241	95,468	2,773	--	--
A	398,956	398,754	364,575	34,179	--	202
TOTAL	513,117	512,915	473,132	39,783	--	202
SACRAMENTO:						
D	4,632	4,632	3,463	1,169	--	--
B	174,799	174,799	159,278	15,521	--	--
A	352,404	352,404	308,004	44,400	--	--
TOTAL	531,835	531,835	470,745	61,090	--	--
SAN JOAQUIN:						
D, C, AND B 2/	89,228	89,228	83,936	5,292	--	--
A	229,307	229,307	227,045	2,262	--	--
TOTAL	318,535	318,535	310,981	7,554	--	--
SOUTHERN	--	--	--	--	--	--
ALL AREAS:						
D	6,032	6,032	4,850	1,182	--	--
C	30,013	30,013	26,722	3,291	--	--
B	470,261	470,261	439,173	31,088	--	--
A	1,864,673	1,864,471	1,728,207	136,264	--	202
TOTAL	2,370,979	2,370,777	2,198,952	171,825	--	202

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Combined to avoid disclosure.

Table 18—Log consumption by sawmills, by age group of timber, resource area, and mill-size class, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL AGE GROUPS	OLD GROWTH (100 YEARS AND OLDER)	YOUNG GROWTH (LESS THAN 100 YEARS)
NORTH COAST:			
D	1,400	273	1,127
C	14,093	1,757	12,336
B	91,783	45,525	46,258
A	884,006	476,918	407,088
TOTAL	991,282	524,473	466,809
CENTRAL COAST:			
D, C, AND B 2/	16,210	1,076	15,134
TOTAL	16,210	1,076	15,134
NORTHERN INTERIOR:			
D AND C 2/	15,920	10,096	5,824
B	98,241	75,240	23,001
A	398,754	248,318	150,436
TOTAL	512,915	333,654	179,261
SACRAMENTO:			
D	4,632	4,156	476
B	174,799	133,085	41,714
A	352,404	233,647	118,757
TOTAL	531,835	370,888	160,947
SAN JOAQUIN:			
D, C, AND B 2/	89,228	34,393	54,835
A	229,307	169,086	60,221
TOTAL	318,535	203,479	115,056
SOUTHERN	--	--	--
ALL AREAS:			
D	6,032	4,429	1,603
C	30,013	11,853	18,160
B	470,261	289,319	180,942
A	1,864,471	1,127,969	736,502
TOTAL	2,370,777	1,433,570	937,207

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Combined to avoid disclosure.

Table 19—Log consumption by sawmills, by age group of timber, resource area, and county of use, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	ALL AGE GROUPS	OLD GROWTH (100 YEARS AND OLDER)	YOUNG GROWTH (LESS THAN 100 YEARS)
NORTH COAST:			
DEL NORTE	79,713	78,140	1,573
HUMBOLDT	449,684	231,714	217,970
MENDOCINO	418,792	199,237	219,555
SONOMA	43,093	15,382	27,711
TOTAL	991,282	524,473	466,809
CENTRAL COAST:			
MONTEREY AND SANTA CRUZ 1/	16,210	1,076	15,134
TOTAL	16,210	1,076	15,134
NORTHERN INTERIOR:			
LASSEN AND MODOC 1/	125,740	80,474	45,266
SHASTA	287,197	184,571	102,626
SISKIYOU AND TRINITY 1/	99,978	68,609	31,369
TOTAL	512,915	333,654	179,261
SACRAMENTO:			
BUTTE	58,411	25,788	32,623
EL DORADO AND PLACER 1/	108,951	41,351	67,600
NEVADA	44,185	42,074	2,111
PLUMAS AND SIERRA 1/	131,584	103,521	28,063
TEHAMA	141,055	116,160	24,895
YUBA	47,649	41,994	5,655
TOTAL	531,835	370,888	160,947
SAN JOAQUIN:			
AMADOR AND CALAVERAS 1/	94,687	58,081	36,606
FRESNO AND MADERA 1/	81,004	37,788	43,216
TULARE AND KERN 1/	75,147	65,565	9,582
TUOLUME	67,697	42,045	25,652
TOTAL	318,535	203,479	115,056
SOUTHERN	--	--	--
ALL AREAS	2,370,777	1,433,570	937,207

1/Combined to avoid disclosure.

Table 20—Log inventory, log consumption, and estimated log receipts by sawmills by resource area, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	LOG INVENTORY			LOG CONSUMPTION	ESTIMATED LOG RECEIPTS
	JANUARY 1, 1982	DECEMBER 31, 1982	NET CHANGE		
NORTH COAST	286,524	223,651	-62,873	991,282	928,409
CENTRAL COAST	3,250	3,305	+55	16,210	16,265
NORTHERN INTERIOR	170,513	134,505	-36,008	512,915	476,907
SACRAMENTO	237,622	167,980	-69,642	531,835	462,193
SAN JOAQUIN	138,550	98,743	-39,807	318,535	278,728
SOUTHERN	--	--	--	--	--
ALL AREAS	836,459	628,184	-208,275	2,370,777	2,162,502

Table 21—Log consumption by sawmills, by ownership class, resource area, and mill-size class, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY		OTHER PRIVATE
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
NORTH COAST:								
D	1,400	--	--	--	--	130	--	1,270
C	14,093	--	--	--	--	3,955	--	10,138
B	91,783	3,500	3,070	300	--	50,819	26,678	7,416
A	884,006	26,324	94,880	8,582	10,371	617,523	61,541	64,785
TOTAL	991,282	29,824	97,950	8,882	10,371	672,427	88,219	83,609
CENTRAL COAST:								
D, C, AND B 2/	16,210	--	--	--	--	675	--	15,535
TOTAL	16,210	--	--	--	--	675	--	15,535
NORTHERN INTERIOR:								
D AND C 2/	15,920	130	9,546	--	--	--	3,280	2,964
B	98,241	--	71,696	1,815	--	--	6,095	18,635
A	398,754	12,003	178,714	--	--	123,374	67,130	17,533
TOTAL	512,915	12,133	259,956	1,815	--	123,374	76,505	39,132
SACRAMENTO:								
D	4,632	--	731	--	--	--	3,051	850
B	174,799	693	96,042	1,313	--	51,972	18,084	6,695
A	352,404	640	112,127	--	--	164,095	17,826	57,716
TOTAL	531,835	1,333	208,900	1,313	--	216,067	38,961	65,261
SAN JOAQUIN:								
D, C, AND B 2/	89,228	--	74,433	--	--	10,000	--	4,795
A	229,307	3,524	129,357	--	--	74,131	15,000	7,295
TOTAL	318,535	3,524	203,790	--	--	84,131	15,000	12,090
SOUTHERN	--	--	--	--	--	--	--	--
ALL AREAS:								
D	6,032	--	731	--	--	130	3,051	2,120
C	30,013	130	9,546	--	--	3,955	3,280	13,102
B	470,261	4,193	245,241	3,428	--	113,466	50,857	53,076
A	1,864,471	42,491	515,078	8,582	10,371	979,123	161,497	147,329
TOTAL	2,370,777	46,814	770,596	12,010	10,371	1,096,674	218,685	215,627

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Combined to avoid disclosure.

Table 22—Log consumption by sawmills, by ownership class, resource area, and county of use, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGENEMT	OTHER PUBLIC	FOREST INDUSTRY		OTHER PRIVATE
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
NORTH COAST:								
DEL NORTE	79,713	--	--	--	--	71,849	7,078	786
HUMBOLDT	449,684	--	92,530	5,900	10,371	256,934	65,739	18,210
MENDOCINO	418,792	29,824	5,420	2,982	--	322,439	15,402	42,725
SONOMA	43,093	--	--	--	--	21,205	--	21,888
TOTAL	991,282	29,824	97,950	8,882	10,371	672,427	88,219	83,609
CENTRAL COAST:								
MONTEREY AND SANTA CRUZ 1/	16,210	--	--	--	--	675	--	15,535
TOTAL	16,210	--	--	--	--	675	--	15,535
NORTHERN INTERIOR:								
LASSEN AND MODOC 1/	125,740	10,080	86,043	210	--	3,774	18,080	7,553
SHASTA	287,197	2,053	109,189	--	--	117,227	27,273	31,455
SISKIYOU AND TRINITY 1/	99,978	--	64,724	1,605	--	2,373	31,152	124
TOTAL	512,915	12,133	259,956	1,815	--	123,374	76,505	39,132
SACRAMENTO:								
BUTTE	58,411	--	11,487	--	--	8,127	3,051	35,746
EL DORADO AND PLACER 1/	108,951	--	51,547	1,313	--	34,689	11,815	9,587
NEVADA	44,185	--	22,854	--	--	18,383	--	2,948
PLUMAS AND SIERRA 1/	131,584	640	75,160	--	--	41,234	7,525	7,025
TEHAMA	141,055	693	20,380	--	--	100,047	10,301	9,634
YUBA	47,649	--	27,472	--	--	13,587	6,269	321
TOTAL	531,835	1,333	208,900	1,313	--	216,067	38,961	65,261
SAN JOAQUIN:								
AMADOR AND CALAVERAS 1/	94,687	--	24,095	--	--	53,992	15,000	1,600
FRESNO AND MADERA 1/	81,004	--	67,104	--	--	10,000	--	3,900
TULARE AND KERN 1/	75,147	3,524	68,128	--	--	--	--	3,495
TUOLUME	67,697	--	44,463	--	--	20,139	--	3,095
TOTAL	318,535	3,524	203,790	--	--	84,131	15,000	12,090
SOUTHERN	--	--	--	--	--	--	--	--
ALL AREAS	2,370,777	46,814	770,596	12,010	10,371	1,096,674	218,685	215,627

1/Combined to avoid disclosure.

Table 23—Dependency (%) of sawmills on logs by ownership class, resource area, and mill-size class, California, 1982

(NUMBER OF MILLS)

RESOURCE AREA AND MILL-SIZE CLASS 1/	NATIONAL FOREST				STATE				BUREAU OF LAND MANAGEMENT			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
NORTH COAST:												
D	3	--	--	--	3	--	--	--	3	--	--	--
C	4	--	--	--	4	--	--	--	4	--	--	--
B	5	1	1	--	6	1	--	--	6	1	--	--
A	19	3	2	1	18	7	--	--	23	2	--	--
TOTAL	31	4	3	1	31	8	--	--	36	3	--	--
CENTRAL COAST:												
D	1	--	--	--	1	--	--	--	1	--	--	--
C	2	--	--	--	2	--	--	--	2	--	--	--
B	1	--	--	--	1	--	--	--	1	--	--	--
TOTAL	4	--	--	--	4	--	--	--	4	--	--	--
NORTHERN INTERIOR:												
D	--	1	1	--	1	1	--	--	2	--	--	--
C	1	--	--	2	3	--	--	--	3	--	--	--
B	--	1	2	3	6	--	--	--	3	3	--	--
A	--	3	6	2	8	3	--	--	11	--	--	--
TOTAL	1	5	9	7	18	4	--	--	19	3	--	--
SACRAMENTO:												
D	1	2	1	--	4	--	--	--	4	--	--	--
B	1	2	2	4	8	1	--	--	8	1	--	--
A	--	3	4	2	8	1	--	--	9	--	--	--
TOTAL	2	7	7	6	20	2	--	--	21	1	--	--
SAN JOAQUIN:												
D	1	--	--	--	1	--	--	--	1	--	--	--
C	--	--	--	1	1	--	--	--	1	--	--	--
B	--	--	1	4	5	--	--	--	5	--	--	--
A	--	2	2	3	6	1	--	--	7	--	--	--
TOTAL	1	2	3	8	13	1	--	--	14	--	--	--
SOUTHERN	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS:												
D	6	3	2	—	10	1	--	--	11	--	--	--
C	7	--	--	3	10	--	--	--	10	--	--	--
B	7	4	6	11	26	2	--	--	23	5	--	--
A	19	11	14	8	40	12	--	--	50	2	--	--
TOTAL	39	18	22	22	86	15	--	--	94	7	--	--

See footnotes at end of table.

Table 23—Dependency (%) of sawmills on logs by ownership class, resource area, and mill-size class, California, 1982 (continued)

(NUMBER OF MILLS)

RESOURCE AREA AND MILL-SIZE CLASS 1/	OTHER PUBLIC	FOREST INDUSTRY										OTHER PRIVATE			
		OWN WOOD SUPPLY				OTHER WOOD SUPPLY									
	0%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
NORTH COAST:													
D	3	2	--	--	1	3	--	--	--	1	--	--	2
C	4	2	--	2	--	4	--	--	--	--	--	1	3
B	7	4	--	--	3	2	1	2	2	2	4	1	--
A	23	4	2	6	13	14	2	3	2	14	9	2	--
TOTAL	37	12	2	8	17	27	3	5	4	17	13	4	5
CENTRAL COAST:													
D	1	1	--	--	--	1	--	--	--	--	--	--	1
C	2	1	1	--	--	2	--	--	--	--	--	--	2
B	1	1	--	--	--	1	--	--	--	--	--	--	1
TOTAL	4	3	1	--	--	4	--	--	--	--	--	--	4
NORTHERN INTERIOR:													
D	2	--	--	--	--	--	1	--	1	--	2	--	--
C	3	3	--	--	--	3	--	--	--	--	2	--	1
B	6	6	--	--	--	3	3	--	--	2	3	--	1
A	11	5	1	4	1	7	2	2	--	5	5	1	--
TOTAL	22	16	1	4	1	13	6	2	1	7	12	1	2
SACRAMENTO:													
D	4	4	--	--	--	2	--	1	1	1	1	--	2
B	9	3	3	--	3	7	1	1	--	4	5	--	--
A	9	1	4	2	2	7	1	1	--	2	6	1	--
TOTAL	22	8	7	2	5	16	2	3	1	7	12	1	2
SAN JOAQUIN:													
D	1	1	--	--	--	1	--	--	--	--	--	--	1
C	1	1	--	--	--	1	--	--	--	--	1	--	--
B	5	4	--	1	--	5	--	--	--	3	2	--	--
A	7	4	--	2	1	6	--	--	1	4	3	--	--
TOTAL	14	10	--	3	1	13	--	--	1	7	6	--	1
SOUTHERN	--	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS:													
D	11	10	--	--	1	7	1	1	2	2	3	--	6
C	16	7	1	2	--	10	--	--	--	--	3	1	6
B	28	18	3	1	6	18	5	3	2	11	14	1	2
A	50	14	7	14	17	38	5	6	3	25	23	4	--
TOTAL	99	49	11	17	24	73	11	10	7	38	43	6	14

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

ble 24—Log consumption by sawmills, by species, resource area, and mill-size class, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

URCE AREA AND -SIZE CLASS 1/	ALL SPECIES	DOUGLAS-FIR	REDWOOD	TRUE FIRS	SUGAR PINE	PONDEROSA PINE	LODGEPOLE PINE	INCENSE-CEDAR	OTHER SOFTWOODS	HARDWOODS
H COAST:										
	1,400	52	83	--	--	--	--	--	13	1,252
	14,093	1,213	12,880	--	--	--	--	--	--	--
	91,783	26,035	62,005	1,616	420	707	--	107	893	--
	884,006	308,981	537,003	22,425	3,780	10,323	--	864	630	--
TOTAL	991,282	336,281	611,971	24,041	4,200	11,030	--	971	1,536	1,252
RAL COAST:										
C, AND B 2/	16,210	1,770	12,353	--	--	--	--	2,080	7	--
TOTAL	16,210	1,770	12,353	--	--	--	--	2,080	7	--
HERN INTERIOR:										
AND C 2/	15,920	1,060	--	5,264	200	7,506	--	1,200	490	200
	98,241	1,948	--	6,028	6,525	51,656	--	32,084	--	--
	398,754	93,193	--	74,064	50,191	178,713	2,593	--	--	--
TOTAL	512,915	96,201	--	85,356	56,916	237,875	2,593	33,284	490	200
AMENTO:										
	4,632	83	--	61	20	158	--	250	60	4,000
	174,799	29,990	--	62,710	19,550	44,017	--	18,532	--	--
	352,404	58,727	--	115,974	49,003	117,235	--	11,465	--	--
TOTAL	531,835	88,800	--	178,745	68,573	161,410	--	30,247	60	4,000
JOAQUIN:										
C, AND B 2/	89,228	1,920	--	35,459	11,248	36,575	2,250	1,739	37	--
	229,307	8,843	--	81,570	37,567	69,465	271	31,591	--	--
TOTAL	318,535	10,763	--	117,029	48,815	106,040	2,521	33,330	37	--
HERN	--	--	--	--	--	--	--	--	--	--
AREAS:										
	6,032	135	83	61	20	158	--	250	73	5,252
	30,013	2,273	12,880	5,264	200	7,506	--	1,200	490	200
	470,261	61,663	74,358	105,813	37,743	132,955	2,250	54,542	937	--
	1,864,471	469,744	537,003	294,033	140,541	375,736	2,864	43,920	630	--
TOTAL	2,370,777	533,815	624,324	405,171	178,504	516,355	5,114	99,912	2,130	5,452

ass D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

mbined to avoid disclosure.

Table 25—Log consumption by sawmills, by species, resource area, and county of use, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA AND COUNTY OF USE	ALL SPECIES	DOUGLAS-FIR	REDWOOD	TRUE FIRS	SUGAR PINE	PONDEROSA PINE	LODGEPOLE PINE	INCENSE-CEDAR	OTHER SOFTWOODS	HARDWOODS
NORTH COAST:										
DEL NORTE	79,713	762	78,152	--	--	--	--	--	799	--
HUMBOLDT	449,684	234,529	194,831	11,064	3,780	4,495	--	246	737	2
MENDOCINO	418,792	81,890	317,595	11,627	420	6,535	--	725	--	--
SONOMA	43,093	19,100	21,393	1,350	--	--	--	--	--	1,250
TOTAL	991,282	336,281	611,971	24,041	4,200	11,030	--	971	1,536	1,252
CENTRAL COAST:										
MONTEREY AND SANTA CRUZ 1/	16,210	1,770	12,353	--	--	--	--	2,080	7	--
TOTAL	16,210	1,770	12,353	--	--	--	--	2,080	7	--
NORTHERN INTERIOR:										
LASSEN AND MODOC 1/	125,740	420	--	43,000	4,080	77,040	--	1,200	--	--
SHASTA	287,197	49,695	--	40,746	41,294	136,148	2,593	16,031	490	200
SISKIYOU AND TRINITY 1/	99,978	46,086	--	1,610	11,542	24,687	--	16,053	--	--
TOTAL	512,915	96,201	--	85,356	56,916	237,875	2,593	33,284	490	200
SACRAMENTO:										
BUTTE	58,411	11,942	--	17,941	5,418	16,853	--	2,257	--	4,000
EL DORADO AND PLACER 1/	108,951	10,256	--	46,038	12,010	27,056	--	13,591	--	--
NEVADA	44,185	2,162	--	28,981	2,911	9,648	--	423	60	--
PLUMAS AND SIERRA 1/	131,584	9,804	--	46,910	16,911	46,170	--	11,789	--	--
TEHAMA	141,055	41,829	--	22,524	25,858	49,227	--	1,617	--	--
YUBA	47,649	12,807	--	16,351	5,465	12,456	--	570	--	--
TOTAL	531,835	88,800	--	178,745	68,573	161,410	--	30,247	60	4,000
SAN JOAQUIN:										
AMADOR AND CALAVERAS 1/	94,687	7,202	--	12,429	15,151	38,731	--	21,174	--	--
FRESNO AND MADERA 1/	81,004	--	--	37,586	18,588	20,125	2,250	2,455	--	--
TULARE AND KERN 1/	75,147	--	--	47,366	7,634	17,065	271	2,811	--	--
TUOLUMNE	67,697	3,561	--	19,648	7,442	30,119	--	6,890	37	--
TOTAL	318,535	10,763	--	117,029	48,815	106,040	2,521	33,330	37	--
SOUTHERN	--	--	--	--	--	--	--	--	--	--
ALL AREAS	2,370,777	533,815	624,324	405,171	178,504	516,355	5,114	99,912	2,130	5,452

1/Combined to avoid disclosure.

ble 26—Production and disposition of wood and bark residue by sawmills, by resource area and mill-size ss, California, 1982

(TONS, DRY WEIGHT)

URCE AREA AND -SIZE CLASS 1/	ALL RESIDUE			WOOD RESIDUE			BARK RESIDUE		
	TOTAL	USED 2/	UNUSED	TOTAL	USED 2/	UNUSED	TOTAL	USED 2/	UNUSED
H COAST:									
	1,916	1,378	538	1,440	1,378	62	476	--	476
	25,945	25,945	--	19,905	19,905	--	6,040	6,040	--
	163,421	156,397	7,024	126,026	122,614	3,412	37,395	33,783	3,612
	1,530,290	1,485,239	45,051	1,184,711	1,151,058	33,653	345,579	334,181	11,398
TOTAL	1,721,572	1,668,959	52,613	1,332,082	1,294,955	37,127	389,490	374,004	15,486
RAL COAST: C, AND B 3/	28,143	26,347	1,796	21,658	21,658	--	6,485	4,689	1,796
TOTAL	28,143	26,347	1,796	21,658	21,658	--	6,485	4,689	1,796
HERN INTERIOR: AND C 3/	21,359	13,410	7,949	16,026	11,076	4,950	5,333	2,334	2,999
	144,129	144,129	--	111,063	111,063	--	33,066	33,066	--
	640,092	640,092	--	498,154	498,154	--	141,938	141,938	--
TOTAL	805,580	797,631	7,949	625,243	620,293	4,950	180,337	177,338	2,999
AMENTO:									
	4,510	3,755	755	3,243	3,046	197	1,267	709	558
	276,334	273,890	2,444	214,524	212,080	2,444	61,810	61,810	--
	557,975	557,975	--	432,369	432,369	--	125,606	125,606	--
TOTAL	838,819	835,620	3,199	650,136	647,495	2,641	188,683	188,125	558
JOAQUIN: C, AND B 3/	108,306	108,306	--	82,069	82,069	--	26,237	26,237	--
	347,420	347,420	--	269,173	269,173	--	78,247	78,247	--
TOTAL	455,726	455,726	--	351,242	351,242	--	104,484	104,484	--
HERN	--	--	--	--	--	--	--	--	--
AREAS:									
	6,426	5,133	1,293	4,683	4,424	259	1,743	709	1,034
	47,304	39,355	7,949	35,931	30,981	4,950	11,373	8,374	2,999
	720,333	709,069	11,264	555,340	549,484	5,856	164,993	159,585	5,408
	3,075,777	3,030,726	45,051	2,384,407	2,350,754	33,653	691,370	679,972	11,398
TOTAL	3,849,840	3,784,283	65,557	2,980,361	2,935,643	44,718	869,479	848,640	20,839

lass D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

isidues are not necessarily used in the area in which they are produced.

Cnbined to avoid disclosure.

Table 27—Production and disposition of wood residue by sawmills, by type of residue, use, resource area, and mill-size class, California, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL TYPES OF RESIDUE						
	TOTAL	USED 2/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTH COAST:							
D	1,440	1,378	70	--	766	542	62
C	19,905	19,905	1,561	--	10,670	7,674	--
B	126,026	122,614	62,761	3,935	39,051	16,867	3,412
A	1,184,711	1,151,058	357,599	224,439	517,834	51,186	33,653
TOTAL	1,332,082	1,294,955	421,991	228,374	568,321	76,269	37,127
CENTRAL COAST:							
D, C, AND B 4/	21,658	21,658	5,957	254	3,113	12,334	--
TOTAL	21,658	21,658	5,957	254	3,113	12,334	--
NORTHERN INTERIOR:							
D AND C 4/	16,026	11,076	4,270	1,766	5,040	--	4,950
B	111,063	111,063	17,847	11,672	81,544	--	--
A	498,154	498,154	257,771	23,230	216,933	220	--
TOTAL	625,243	620,293	279,888	36,668	303,517	220	4,950
SACRAMENTO:							
D	3,243	3,046	493	--	2,279	274	197
B	214,524	212,080	52,519	18,549	123,589	17,423	2,444
A	432,369	432,369	124,647	73,458	226,398	7,866	--
TOTAL	650,136	647,495	177,659	92,007	352,266	25,563	2,641
SAN JOAQUIN:							
D, C, AND B 4/	82,069	82,069	38,564	13,107	8,809	21,589	--
A	269,173	269,173	135,990	27,757	56,716	48,710	--
TOTAL	351,242	351,242	174,554	40,864	65,525	70,299	--
SOUTHERN	--	--	--	--	--	--	--
ALL AREAS:							
D	4,683	4,424	563	--	3,045	816	259
C	35,931	30,981	5,831	1,766	15,710	7,674	4,950
B	555,340	549,484	177,648	47,517	256,106	68,213	5,856
A	2,384,407	2,350,754	876,007	348,884	1,017,881	107,982	33,653
TOTAL	2,980,361	2,935,643	1,060,049	398,167	1,292,742	184,685	44,718

See footnotes at the end of table.

ble 27—Production and disposition of wood residue by sawmills, by type of residue, use, resource area, d mill-size class, California, 1982 (continued)

(TONS, DRY WEIGHT)

SOURCE AREA AND LL-SIZE CLASS 1/	COARSE RESIDUE 3/						
	TOTAL	USED 2/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
RTH COAST:							
	860	836	70	--	766	--	24
	14,177	14,177	1,561	--	8,105	4,511	--
	83,050	80,461	59,855	--	10,250	10,356	2,589
	754,322	720,819	336,707	60,761	310,428	12,923	33,503
TOTAL	852,409	816,293	398,193	60,761	329,549	27,790	36,116
NTRAL COAST:							
, C, AND B 4/	15,083	15,083	4,216	--	2,434	8,433	--
TOTAL	15,083	15,083	4,216	--	2,434	8,433	--
RTHERN INTERIOR:							
AND C 4/	10,389	7,113	3,055	--	4,058	--	3,276
	69,358	69,358	17,090	2,227	50,041	--	--
	271,927	271,927	242,199	--	29,728	--	--
TOTAL	351,674	348,398	262,344	2,227	83,827	--	3,276
CRAMENTO:							
	2,285	2,088	493	--	1,473	122	197
	121,813	119,699	52,519	--	65,421	1,759	2,114
	242,694	242,694	124,647	35,059	82,988	--	--
TOTAL	366,792	364,481	177,659	35,059	149,882	1,881	2,311
JOAQUIN:							
, C, AND B 4/	50,555	50,555	38,227	12,142	116	70	--
	154,913	154,913	135,990	3,565	15,358	--	--
TOTAL	205,468	205,468	174,217	15,707	15,474	70	--
THERN	--	--	--	--	--	--	--
AREAS:							
	3,145	2,924	563	--	2,239	122	221
	24,566	21,290	4,616	--	12,163	4,511	3,276
	339,859	335,156	171,907	14,369	128,262	20,618	4,703
	1,423,856	1,390,353	839,543	99,385	438,502	12,923	33,503
TOTAL	1,791,426	1,749,723	1,016,629	113,754	581,166	38,174	41,703

See footnotes at end of table.

Table 27—Production and disposition of wood residue by sawmills, by type of residue, use, resource area, and mill-size class, California, 1982 (continued)

(TONS, DRY WEIGHT)

RESOURCE AREA AND MILL-SIZE CLASS 1/	SHAVINGS						
	TOTAL	USED 2/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTH COAST:							
D	249	249	--	--	--	249	--
C	1,127	1,127	--	--	--	1,127	--
B	12,122	12,122	1,217	2,418	6,528	1,959	--
A	138,598	138,598	8,049	74,391	38,691	17,467	--
TOTAL	152,096	152,096	9,266	76,809	45,219	20,802	--
CENTRAL COAST:							
D, C, AND B 4/	1,568	1,568	375	254	--	939	--
TOTAL	1,568	1,568	375	254	--	939	--
NORTHERN INTERIOR:							
D AND C 4/	535	535	--	535	--	--	--
B	12,365	12,365	--	9,445	2,920	--	--
A	87,219	87,219	--	23,230	63,769	220	--
TOTAL	100,119	100,119	--	33,210	66,689	220	--
SACRAMENTO:							
D	70	70	--	--	51	19	--
B	33,915	33,915	--	12,604	13,506	7,805	--
A	67,753	67,753	--	30,244	37,509	--	--
TOTAL	101,738	101,738	--	42,848	51,066	7,824	--
SAN JOAQUIN:							
D, C, AND B 4/	5,975	5,975	--	965	--	5,010	--
A	40,185	40,185	--	13,309	1,533	25,343	--
TOTAL	46,160	46,160	--	14,274	1,533	30,353	--
SOUTHERN	--	--	--	--	--	--	--
ALL AREAS:							
D	319	319	--	--	51	268	--
C	1,662	1,662	--	535	--	1,127	--
B	65,945	65,945	1,592	25,686	22,954	15,713	--
A	333,755	333,755	8,049	141,174	141,502	43,030	--
TOTAL	401,681	401,681	9,641	167,395	164,507	60,138	--

See footnotes at end of table.

ble 27—Production and disposition of wood residue by sawmills, by type of residue, use, resource area, d mill-size class, California, 1982 (continued)

(TONS, DRY WEIGHT)

OURCE AREA AND L-SIZE CLASS 1/	SAWDUST						
	TOTAL	USED 2/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
TH COAST:							
	331	293	--	--	--	293	38
	4,601	4,601	--	--	2,565	2,036	--
	30,854	30,031	1,689	1,517	22,273	4,552	823
	291,791	291,641	12,843	89,287	168,715	20,796	150
TOTAL	327,577	326,566	14,532	90,804	193,553	27,677	1,011
TRAL COAST:							
, C, AND B 4/	5,007	5,007	1,366	--	679	2,962	--
TOTAL	5,007	5,007	1,366	--	679	2,962	--
THERN INTERIOR:							
AND C 4/	5,102	3,428	1,215	1,231	982	--	1,674
	29,340	29,340	757	--	28,583	--	--
	139,008	139,008	15,572	--	123,436	--	--
TOTAL	173,450	171,776	17,544	1,231	153,001	--	1,674
RAMENTO:							
	888	888	--	--	755	133	--
	58,796	58,466	--	5,945	44,662	7,859	330
	121,922	121,922	--	8,155	105,901	7,866	--
TOTAL	181,606	181,276	--	14,100	151,318	15,858	330
JOAQUIN:							
, C, AND B 4/	25,539	25,539	337	--	8,693	16,509	--
	74,075	74,075	--	10,883	39,825	23,367	--
TOTAL	99,614	99,614	337	10,883	48,518	39,876	--
THERN	--	--	--	--	--	--	--
AREAS:							
	1,219	1,181	--	--	755	426	38
	9,703	8,029	1,215	1,231	3,547	2,036	1,674
	149,536	148,383	4,149	7,462	104,890	31,882	1,153
	626,796	626,646	28,415	108,325	437,877	52,029	150
TOTAL	787,254	784,239	33,779	117,018	547,069	86,373	3,015

/lass D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; 120,000 or more.

/esidues are not necessarily used in the area in which they are produced.

/ncludes slabs, edgings, trim, and spur ends.

/ombined to avoid disclosure.

Table 28—Production and disposition of bark residue by sawmills, by use, resource area, and mill-size class, California, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL BARK	USED 2/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTH COAST:							
D	476	--	--	--	--	--	476
C	6,040	6,040	--	--	3,420	2,620	--
B	37,395	33,783	--	--	20,531	13,252	3,612
A	345,579	334,181	--	556	266,029	67,596	11,398
TOTAL	389,490	374,004	--	556	289,980	83,468	15,486
CENTRAL COAST:							
D, C, AND B 3/	6,485	4,689	--	--	989	3,700	1,796
TOTAL	6,485	4,689	--	--	989	3,700	1,796
NORTHERN INTERIOR:							
D AND C 3/	5,333	2,334	--	--	2,334	--	2,999
B	33,066	33,066	--	--	33,066	--	--
A	141,938	141,938	--	--	118,500	23,438	--
TOTAL	180,337	177,338	--	--	153,900	23,438	2,999
SACRAMENTO:							
D	1,267	709	--	--	641	68	558
B	61,810	61,810	--	--	32,258	29,552	--
A	125,606	125,606	--	--	74,056	51,550	--
TOTAL	188,683	188,125	--	--	106,955	81,170	558
SAN JOAQUIN:							
D, C, AND B 3/	26,237	26,237	--	5,419	1,287	19,531	--
A	78,247	78,247	--	--	32,717	45,530	--
TOTAL	104,484	104,484	--	5,419	34,004	65,061	--
SOUTHERN	--	--	--	--	--	--	--
ALL AREAS:							
D	1,743	709	--	--	641	68	1,034
C	11,373	8,374	--	--	5,754	2,620	2,999
B	164,993	159,585	--	5,419	88,131	66,035	5,408
A	691,370	679,972	--	556	491,302	188,114	11,398
TOTAL	869,479	848,640	--	5,975	585,828	256,837	20,839

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Residues are not necessarily used in the area in which they are produced.

3/Combined to avoid disclosure.

le 29—Production and disposition of wood and bark residue by sawmills, by resource area and county, ifornia, 1982

(TONS, DRY WEIGHT)

URCE AREA COUNTY	ALL RESIDUE			WOOD RESIDUE			BARK RESIDUE		
	TOTAL	USED 1/	UNUSED	TOTAL	USED 1/	UNUSED	TOTAL	USED 1/	UNUSED
H COAST:									
L NORTE	111,073	103,943	7,130	84,509	81,035	3,474	26,564	22,908	3,656
MBOLDT	805,782	805,775	7	623,455	623,455	--	182,327	182,320	7
NDOCINO	718,115	709,307	8,808	556,591	555,173	1,418	161,524	154,134	7,390
NOMA	86,602	49,934	36,668	67,527	35,292	32,235	19,075	14,642	4,433
TOTAL	1,721,572	1,668,959	52,613	1,332,082	1,294,955	37,127	389,490	374,004	15,486
RAL COAST:									
NTEREY AND ANTA CRUZ 2/	28,143	26,347	1,796	21,658	21,658	--	6,485	4,689	1,796
TOTAL	28,143	26,347	1,796	21,658	21,658	--	6,485	4,689	1,796
HERN INTERIOR:									
SSEN AND MODOC 2/	193,882	185,933	7,949	151,011	146,061	4,950	42,871	39,872	2,999
ASTA	442,471	442,471	--	343,116	343,116	--	99,355	99,355	--
SKIYOU AND RINITY 2/	169,227	169,227	--	131,116	131,116	--	38,111	38,111	--
TOTAL	805,580	797,631	7,949	625,243	620,293	4,950	180,337	177,338	2,999
AMENTO:									
TTE	97,793	97,038	755	75,552	75,355	197	22,241	21,683	558
DORADO AND LACER 2/	172,054	170,609	1,445	132,284	130,839	1,445	39,770	39,770	--
VADA	67,465	67,465	--	52,478	52,478	--	14,987	14,987	--
UMAS AND SIERRA 2/	194,043	194,043	--	150,653	150,653	--	43,390	43,390	--
HAMA	229,220	228,221	999	178,280	177,281	999	50,940	50,940	--
BA	78,244	78,244	--	60,889	60,889	--	17,355	17,355	--
TOTAL	838,819	835,620	3,199	650,136	647,495	2,641	188,683	188,125	558
JOAQUIN:									
ADOR AND LAVERAS 2/	124,743	124,743	--	94,660	94,660	--	30,083	30,083	--
SNO AND MADERA 2/	100,525	100,525	--	77,671	77,671	--	22,854	22,854	--
N AND TULARE 2/	132,823	132,823	--	103,575	103,575	--	29,248	29,248	--
OLUME	97,635	97,635	--	75,336	75,336	--	22,299	22,299	--
TOTAL	455,726	455,726	--	351,242	351,242	--	104,484	104,484	--
ERN	--	--	--	--	--	--	--	--	--
REAS	3,849,840	3,784,283	65,557	2,980,361	2,935,643	44,718	869,479	848,640	20,839

idues are not necessarily used in the area or county in which they are produced.

bined to avoid disclosure.

Table 30—Production and disposition of wood residue by sawmills, by type of residue, use, resource area and county, California, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND COUNTY	ALL TYPES OF RESIDUE						
	TOTAL	USED 1/					UNUSE
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTH COAST:							
DEL NORTE	84,509	81,035	49,716	1,765	19,198	10,356	3,47
HUMBOLDT	623,455	623,455	279,616	53,510	287,303	3,026	-
MENDOCINO	556,591	555,173	91,098	153,627	257,468	52,980	1,41
SONOMA	67,527	35,292	1,561	19,472	4,352	9,907	32,23
TOTAL	1,332,082	1,294,955	421,991	228,374	568,321	76,269	37,12
CENTRAL COAST:							
MONTEREY AND SANTA CRUZ 3/	21,658	21,658	5,957	254	3,113	12,334	-
TOTAL	21,658	21,658	5,957	254	3,113	12,334	-
NORTHERN INTERIOR:							
LASSEN AND MODOC 3/	151,011	146,061	32,610	5,303	108,148	--	4,95
SHASTA	343,116	343,116	189,076	25,882	127,938	220	-
SISKIYOU AND TRINITY 3/	131,116	131,116	58,202	5,483	67,431	--	-
TOTAL	625,243	620,293	279,888	36,668	303,517	220	4,95
SACRAMENTO:							
BUTTE	75,552	75,355	39,153	10,190	25,911	101	19
EL DORADO AND PLACER 3/	132,284	130,839	57,686	10,319	45,522	17,312	1,44
NEVADA	52,478	52,478	26,886	8,026	13,845	3,721	-
PLUMAS AND SIERRA 3/	150,653	150,653	25,985	51,931	72,737	--	-
TEHAMA	178,280	177,281	21,500	11,541	144,072	168	99
YUBA	60,889	60,889	6,449	--	50,179	4,261	-
TOTAL	650,136	647,495	177,659	92,007	352,266	25,563	2,64
SAN JOAQUIN:							
AMADOR AND CALAVERAS 3/	94,660	94,660	40,855	10,570	38,253	4,982	-
FRESNO AND MADERA 3/	77,671	77,671	33,583	15,776	7,684	20,628	-
KERN AND TULARE 3/	103,575	103,575	56,571	10,666	1,223	35,115	-
TUOLUME	75,336	75,336	43,545	3,852	18,365	9,574	-
TOTAL	351,242	351,242	174,554	40,864	65,525	70,299	-
SOUTHERN	--	--	--	--	--	--	-
ALL AREAS	2,980,361	2,935,643	1,060,049	398,167	1,292,742	184,685	44,71

See footnotes at end of table.

le 30—Production and disposition of wood residue by sawmills, by type of residue, use, resource area, l county, California, 1982 (continued)

(TONS, DRY WEIGHT)

OURCE AREA COUNTY	COARSE RESIDUE 2/						
	TOTAL	USED 1/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
TH COAST:							
EL NORTE	62,685	60,072	49,716	--	--	10,356	2,613
UMBOLDT	385,228	385,228	255,818	--	129,410	--	--
ENDOCINO	363,742	362,474	91,098	60,761	199,389	11,226	1,268
ONOMA	40,754	8,519	1,561	--	750	6,208	32,235
TOTAL	852,409	816,293	398,193	60,761	329,549	27,790	36,116
TRAL COAST:							
ONTEREY AND SANTA CRUZ 3/	15,083	15,083	4,216	--	2,434	8,433	--
TOTAL	15,083	15,083	4,216	--	2,434	8,433	--
THERN INTERIOR:							
ASSEN AND MODOC 3/	82,316	79,040	32,610	--	46,430	--	3,276
IASTA	192,833	192,833	171,532	--	21,301	--	--
ISKIYOU AND TRINITY 3/	76,525	76,525	58,202	2,227	16,096	--	--
TOTAL	351,674	348,398	262,344	2,227	83,827	--	3,276
AMENTO:							
TTE	42,858	42,661	39,153	2,035	1,473	--	197
DORADO AND LACER 3/	78,642	77,197	57,686	--	19,511	--	1,445
VADA	28,767	28,767	26,886	--	--	1,881	--
UMAS AND SIERRA 3/	85,352	85,352	25,985	33,024	26,343	--	--
HAMA	97,818	97,149	21,500	--	75,649	--	669
BA	33,355	33,355	6,449	--	26,906	--	--
TOTAL	366,792	364,481	177,659	35,059	149,882	1,881	2,311
JOAQUIN:							
ADOR AND ALAVERAS 3/	60,753	60,753	40,855	4,540	15,358	--	--
ESNO AND MADERA 3/	44,150	44,150	33,583	10,381	116	70	--
RN AND TULARE 3/	56,571	56,571	56,571	--	--	--	--
OLUME	43,994	43,994	43,208	786	--	--	--
TOTAL	205,468	205,468	174,217	15,707	15,474	70	--
UTHERN	--	--	--	--	--	--	--
L AREAS	1,791,426	1,749,723	1,016,629	113,754	581,166	38,174	41,703

efootnotes at end of table.

Table 30—Production and disposition of wood residue by sawmills, by type of residue, use, resource area, and county, California, 1982 (continued)

(TONS, DRY WEIGHT)

RESOURCE AREA AND COUNTY	SHAVINGS						
	TOTAL	USED 1/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTH COAST:							
DEL NORTE	1,765	1,765	--	1,765	--	--	--
HUMBOLDT	77,851	77,851	9,266	26,428	39,136	3,021	--
MENDOCINO	62,099	62,099	--	43,212	2,481	16,406	--
SONOMA	10,381	10,381	--	5,404	3,602	1,375	--
TOTAL	152,096	152,096	9,266	76,809	45,219	20,802	--
CENTRAL COAST:							
MONTEREY AND SANTA CRUZ 3/	1,568	1,568	375	254	--	939	--
TOTAL	1,568	1,568	375	254	--	939	--
NORTHERN INTERIOR:							
LASSEN AND MODOC 3/	26,820	26,820	--	4,072	22,748	--	--
SHASTA	54,247	54,247	--	25,882	28,145	220	--
SISKIYOU AND TRINITY 3/	19,052	19,052	--	3,256	15,796	--	--
TOTAL	100,119	100,119	--	33,210	66,689	220	--
SACRAMENTO:							
BUTTE	11,470	11,470	--	--	11,451	19	--
EL DORADO AND PLACER 3/	15,945	15,945	--	10,319	2,250	3,376	--
NEVADA	9,067	9,067	--	8,026	1,041	--	--
PLUMAS AND SIERRA 3/	23,947	23,947	--	18,907	5,040	--	--
TEHAMA	30,711	30,711	--	5,596	24,947	168	--
YUBA	10,598	10,598	--	--	6,337	4,261	--
TOTAL	101,738	101,738	--	42,848	51,066	7,824	--
SAN JOAQUIN:							
AMADOR AND CALAVERAS 3/	6,030	6,030	--	6,030	--	--	--
FRESNO AND MADERA 3/	11,332	11,332	--	965	--	10,367	--
KERN AND TULARE 3/	18,643	18,643	--	4,213	--	14,430	--
TUOLUME	10,155	10,155	--	3,066	1,533	5,556	--
TOTAL	46,160	46,160	--	14,274	1,533	30,353	--
SOUTHERN	--	--	--	--	--	--	--
ALL AREAS	401,681	401,681	9,641	167,395	164,507	60,138	--

See footnotes at end of table.

30—Production and disposition of wood residue by sawmills, by type of residue, use, resource area, ounty, California, 1982 (continued)

(TONS, DRY WEIGHT)

RCE AREA OUNTY	SAWDUST						
	TOTAL	USED 1/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
COAST:							
NORTE	20,059	19,198	--	--	19,198	--	861
OLDT	160,376	160,376	14,532	27,082	118,757	5	--
OCINO	130,750	130,600	--	49,654	55,598	25,348	150
MA	16,392	16,392	--	14,068	--	2,324	--
OTAL	327,577	326,566	14,532	90,804	193,553	27,677	1,011
L COAST:							
NEREY AND TA CRUZ 3/	5,007	5,007	1,366	--	679	2,962	--
OTAL	5,007	5,007	1,366	--	679	2,962	--
RN INTERIOR:							
EN AND MODOC 3/	41,875	40,201	--	1,231	38,970	--	1,674
TA	96,036	96,036	17,544	--	78,492	--	--
IYOU AND RINITY 3/	35,539	35,539	--	--	35,539	--	--
OTAL	173,450	171,776	17,544	1,231	153,001	--	1,674
AENTO:							
TE	21,224	21,224	--	8,155	12,987	82	--
DRADO AND CER 3/	37,697	37,697	--	--	23,761	13,936	--
DA	14,644	14,644	--	--	12,804	1,840	--
AS AND SIERRA 3/	41,354	41,354	--	--	41,354	--	--
HMA	49,751	49,421	--	5,945	43,476	--	330
B	16,936	16,936	--	--	16,936	--	--
OTAL	181,606	181,276	--	14,100	151,318	15,858	330
JAQUIN:							
DR AND VERAS 3/	27,877	27,877	--	--	22,895	4,982	--
O AND MADERA 3/	22,189	22,189	--	4,430	7,568	10,191	--
AND TULARE 3/	28,361	28,361	--	6,453	1,223	20,685	--
UOHME	21,187	21,187	337	--	16,832	4,018	--
TAL	99,614	99,614	337	10,883	48,518	39,876	--
THER	--	--	--	--	--	--	--
AREAS	787,254	784,239	33,779	117,018	547,069	86,373	3,015

Residues are not necessarily used in the area or county in which they are produced.

Coarse residue includes slabs, edgings, trim, and spur ends.

Table 31—Production and disposition of bark residue by sawmills, by use, resource area, and county, California, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND COUNTY	ALL BARK	USED 1/					UNU
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
NORTH COAST:							
DEL NORTE	26,564	22,908	--	--	22,908	--	3,
HUMBOLDT	182,327	182,320	--	--	174,528	7,792	
MENDOCINO	161,524	154,134	--	556	82,926	70,652	7,
SONOMA	19,075	14,642	--	--	9,618	5,024	4,
TOTAL	389,490	374,004	--	556	289,980	83,468	15,
CENTRAL COAST:							
MONTEREY AND SANTA CRUZ 2/	6,485	4,689	--	--	989	3,700	1,
TOTAL	6,485	4,689	--	--	989	3,700	1,
NORTHERN INTERIOR:							
LASSEN AND MODOC 2/	42,871	39,872	--	--	39,872	--	2,
SHASTA	99,355	99,355	--	--	78,499	20,856	
SISKIYOU AND TRINITY 2/	38,111	38,111	--	--	35,529	2,582	
TOTAL	180,337	177,338	--	--	153,900	23,438	2,
SACRAMENTO:							
BUTTE	22,241	21,683	--	--	641	21,042	
EL DORADO AND PLACER 2/	39,770	39,770	--	--	13,729	26,041	
NEVADA	14,987	14,987	--	--	5,770	9,217	
PLUMAS AND SIERRA 2/	43,390	43,390	--	--	36,265	7,125	
TEHAMA	50,940	50,940	--	--	33,195	17,745	
YUBA	17,355	17,355	--	--	17,355	--	
TOTAL	188,683	188,125	--	--	106,955	81,170	
SAN JOAQUIN:							
AMADOR AND CALAVERAS 2/	30,083	30,083	--	--	15,737	14,346	
FRESNO AND MADERA 2/	22,854	22,854	--	5,419	--	17,435	
KERN AND TULARE 2/	29,248	29,248	--	--	432	28,816	
TUOLUME	22,299	22,299	--	--	17,835	4,464	
TOTAL	104,484	104,484	--	5,419	34,004	65,061	
SOUTHERN	--	--	--	--	--	--	
ALL AREAS	869,479	848,640	--	5,975	585,828	256,837	20,

1/Residues are not necessarily used in the area or county in which they are produced.

2/Combined to avoid disclosure.

Table 32—Lumber production by sawmills, by degree of manufacture, resource area, and mill-size class, California, 1982

(THOUSAND BOARD FEET, LUMBER TALLY)

RESOURCE AREA AND MILL-SIZE CLASS 1/	GREEN	KILN-DRIED	AIR-DRIED	TOTAL 2/	ROUGH	SURFACED
NORTH COAST:						
D	475	944	6	1,425	293	1,132
C	19,950	--	240	20,190	13,075	7,115
B	92,585	12,475	21,740	126,800	58,270	68,530
A	914,119	233,965	28,827	1,176,911	388,881	788,030
TOTAL	1,027,129	247,384	50,813	1,325,326	460,519	864,807
CENTRAL COAST:						
D, C, AND B 3/	21,601	--	126	21,727	11,839	9,888
TOTAL	21,601	--	126	21,727	11,839	9,888
NORTHERN INTERIOR:						
D AND C 3/	8,320	--	10,500	18,820	16,120	2,700
B	10,393	67,039	36,267	113,699	52,494	61,205
A	112,594	375,436	10,205	498,235	68,585	429,650
TOTAL	131,307	442,475	56,972	630,754	137,199	493,555
SACRAMENTO:						
D	3,398	328	75	3,801	3,469	332
B	63,089	135,161	17,316	215,566	45,521	170,045
A	106,706	315,089	18,129	439,924	104,600	335,324
TOTAL	173,193	450,578	35,520	659,291	153,590	505,701
SAN JOAQUIN:						
D, C, AND B 3/	33,119	27,995	30,833	91,947	62,320	29,627
A	89,795	159,432	23,389	272,616	71,379	201,237
TOTAL	122,914	187,427	54,222	364,563	133,699	230,864
SOUTHERN	--	--	--	--	--	--
ALL AREAS:						
D	3,873	1,272	81	5,226	3,762	1,464
C	28,270	--	10,740	39,010	29,195	9,815
B	220,787	242,670	106,282	569,739	230,444	339,295
A	1,223,214	1,083,922	80,550	2,387,686	633,445	1,754,241
TOTAL	1,476,144	1,327,864	197,653	3,001,661	896,846	2,104,815

/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; = 80,000-119,999; A = 120,000 or more.

/Total of "Green," "Kiln-dried," and "Air-dried"; also, total of "Rough" and "Surfaced."

/Combined to avoid disclosure.

Table 33—Lumber production by sawmills, by type of headrig, resource area, and mill-size class, California, 1982

(THOUSAND BOARD FEET, LUMBER TALLY)

RESOURCE AREA AND MILL-SIZE CLASS 1/	ALL TYPES	CIRCULAR SAW	BAND SAW	GANG SAW
NORTH COAST:				
D	1,425	1,425	--	--
C	20,190	--	20,190	--
B	126,800	--	124,600	2,200
A	1,176,911	41,000	1,005,093	130,818
TOTAL	1,325,326	42,425	1,149,883	133,018
CENTRAL COAST:				
D, C, AND B 2/	21,727	3,727	18,000	--
TOTAL	21,727	3,727	18,000	--
NORTHERN INTERIOR:				
D AND C 2/	18,820	3,520	15,300	--
B	113,699	--	113,699	--
A	498,235	--	498,235	--
TOTAL	630,754	3,520	627,234	--
SACRAMENTO:				
D	3,801	518	3,283	--
B	215,566	--	213,746	1,820
A	439,924	--	410,467	29,457
TOTAL	659,291	518	627,496	31,277
SAN JOAQUIN:				
D, C, AND B 2/	91,947	19,128	72,819	--
A	272,616	21,600	251,016	--
TOTAL	364,563	40,728	323,835	--
SOUTHERN	--	--	--	--
ALL AREAS:				
D	5,226	1,943	3,283	--
C	39,010	3,520	35,490	--
B	569,739	22,855	542,864	4,020
A	2,387,686	62,600	2,164,811	160,275
TOTAL	3,001,661	90,918	2,746,448	164,295

1/Class D mills = less than 40,000 board-foot capacity per 8-hour shift; C = 40,000-79,999; B = 80,000-119,999; A = 120,000 or more.

2/Combined to avoid disclosure.

Table 34—Lumber production by sawmills, by type of headrig, resource area, and county, California, 1982

(THOUSAND BOARD FEET, LUMBER TALLY)

RESOURCE AREA AND COUNTY	ALL TYPES	CIRCULAR SAW	BAND SAW	GANG SAW
NORTH COAST:				
DEL NORTE	88,650	41,150	45,300	2,200
HUMBOLDT	625,865	25	545,022	80,818
MENDOCINO	545,771	--	495,771	50,000
SONOMA	65,040	1,250	63,790	--
TOTAL	1,325,326	42,425	1,149,883	133,018
CENTRAL COAST:				
MONTEREY AND SANTA CRUZ 1/	21,727	3,727	18,000	--
TOTAL	21,727	3,727	18,000	--
NORTHERN INTERIOR:				
LASSEN AND MODOC 1/	150,353	--	150,353	--
SHASTA	348,033	3,520	344,513	--
SISKIYOU AND TRINITY 1/	132,368	--	132,368	--
TOTAL	630,754	3,520	627,234	--
SACRAMENTO:				
BUTTE	77,243	318	47,468	29,457
EL DORADO AND PLACER 1/	138,595	--	136,775	1,820
NEVADA	52,566	200	52,366	--
PLUMAS AND SIERRA 1/	151,384	--	151,384	--
TEHAMA	178,648	--	178,648	--
YUBA	60,855	--	60,855	--
TOTAL	659,291	518	627,496	31,277
SAN JOAQUIN:				
AMADOR AND CALAVERAS 1/	104,348	21,600	82,748	--
FRESNO AND MADERA 1/	80,048	19,128	60,920	--
TULARE AND KERN 1/	102,416	--	102,416	--
TUOLUME	77,751	--	77,751	--
TOTAL	364,563	40,728	323,835	--
SOUTHERN	--	--	--	--
ALL AREAS	3,001,661	90,918	2,746,448	164,295

1/Combined to avoid disclosure.

Table 35—Number of veneer and plywood mills by type of mill, resource area, and county, California, 1982

RESOURCE AREA AND COUNTY	ALL TYPES	VENEER MILL	LAYUP MILL	VENEER AND LAYUP MILL
NORTH COAST:				
DEL NORTE	2	2	--	--
HUMBOLDT	1	--	--	1
TOTAL	3	2	--	1
CENTRAL COAST	--	--	--	--
NORTHERN INTERIOR:				
SHASTA	2	--	--	2
SISKIYOU	2	2	--	--
TOTAL	4	2	--	2
SACRAMENTO:				
EL DORADO	1	1	--	--
TEHAMA	1	--	--	1
TOTAL	2	1	--	1
SAN JOAQUIN:				
TUOLUME	1	--	--	1
TOTAL	1	--	--	1
SOUTHERN	--	--	--	--
ALL AREAS	10	5	--	5

Table 36—Installed 8-hour capacity of veneer and plywood mills by type of mill, resource area, and county, California, 1982

(THOUSAND SQUARE FEET, 3/8-INCH BASIS)

RESOURCE AREA AND COUNTY	VENEER MILL	LAYUP MILL	VENEER AND LAYUP MILL	
			VENEER	LAYUP
NORTH COAST:				
DEL NORTE	380	--	--	--
HUMBOLDT	--	--	160	120
TOTAL	380	--	160	120
CENTRAL COAST	--	--	--	--
NORTHERN INTERIOR:				
SHASTA	--	--	334	248
SISKIYOU	360	--	--	--
TOTAL	360	--	334	248
SACRAMENTO:				
EL DORADO	50	--	--	--
TEHAMA	--	--	154	154
TOTAL	50	--	154	154
SAN JOAQUIN:				
TUOLUME	--	--	80	100
TOTAL	--	--	80	100
SOUTHERN	--	--	--	--
ALL AREAS	790	--	728	622

Table 37—Number of veneer and plywood mills by diameter limit of lathe and resource area, California, 1982

RESOURCE AREA	LAYUP ONLY	DIAMETER LIMIT OF LATHE (INCHES)						
		20-29	30-39	40-49	50-59	60-69	70-79	80 PLUS
NORTH COAST	--	--	--	--	--	--	--	3
CENTRAL COAST	--	--	--	--	--	--	--	--
NORTHERN INTERIOR	--	--	--	--	2	2	--	--
SACRAMENTO	--	--	1	--	--	1	--	--
SAN JOAQUIN	--	--	--	--	--	--	1	--
SOUTHERN	--	--	--	--	--	--	--	--
ALL AREAS	--	--	1	--	2	3	1	3

Table 38—Number of veneer and plywood mills by diameter of core produced and resource area, California, 1982

RESOURCE AREA	DIAMETER OF CORES (INCHES)								NO LATHE OR CORE
	3	4	5	6	7	8	9	10	
NORTH COAST	--	--	1	--	--	--	2	--	--
CENTRAL COAST	--	--	--	--	--	--	--	--	--
NORTHERN INTERIOR	--	--	--	3	1	--	--	--	--
SACRAMENTO	--	--	--	1	1	--	--	--	--
SAN JOAQUIN	--	--	--	1	--	--	--	--	--
SOUTHERN	--	--	--	--	--	--	--	--	--
ALL AREAS	--	--	1	5	2	--	2	--	--

Table 39—Number of veneer and plywood mills by selected equipment, resource area, and county, California, 1982

RESOURCE AREA AND COUNTY	4-FOOT LATHE	8-FOOT LATHE	SLICER	VENEER CHIPPER	CORE CHIPPER	COLD PRESS	HOT PRESS	BURNER
NORTH COAST:								
DEL NORTE	1	2	--	2	2	--	--	--
HUMBOLDT	--	1	--	1	--	1	1	--
TOTAL	1	3	--	3	2	1	1	--
CENTRAL COAST	--	--	--	--	--	--	--	--
NORTHERN INTERIOR:								
SHASTA	1	2	--	2	1	1	2	--
SISKIYOU	1	2	--	2	1	--	--	--
TOTAL	2	4	--	4	2	1	2	--
SACRAMENTO:								
EL DORADO	1	--	--	1	--	--	--	--
TEHAMA	--	1	--	1	1	--	1	--
TOTAL	1	1	--	2	1	--	1	--
SAN JOAQUIN:								
TUOLUME	--	1	--	1	1	--	1	--
TOTAL	--	1	--	1	1	--	1	--
SOUTHERN	--	--	--	--	--	--	--	--
ALL AREAS	4	9	--	10	6	2	5	--

Table 40—Number of veneer and plywood mills by tenure of present owner, resource area, and years at present site, California, 1982

RESOURCE AREA AND YEARS AT PRESENT SITE	ALL MILLS	TENURE OF PRESENT OWNER (YEARS)				
		0-2	3-5	6-10	11-20	21 PLUS
NORTH COAST:						
11-20	2	--	--	--	2	--
21 PLUS	1	--	--	--	--	1
TOTAL	3	--	--	--	2	1
CENTRAL COAST	--	--	--	--	--	--
NORTHERN INTERIOR:						
11-20	1	--	--	--	1	--
21 PLUS	3	1	1	--	--	1
TOTAL	4	1	1	--	1	1
SACRAMENTO:						
21 PLUS	2	--	--	--	1	1
TOTAL	2	--	--	--	1	1
SAN JOAQUIN:						
21 PLUS	1	--	1	--	--	--
TOTAL	1	--	1	--	--	--
SOUTHERN	--	--	--	--	--	--
ALL AREAS:						
11-20	3	--	--	--	3	--
21 PLUS	7	1	2	--	1	3
TOTAL	10	1	2	--	4	3

Table 41—Average number of operating days per year of veneer and plywood mills by type of mill and resource area, California, 1982

RESOURCE AREA	VENEER MILL	LAYUP MILL	VENEER AND LAYUP MILL
NORTH COAST	237	--	155
CENTRAL COAST	--	--	--
NORTHERN INTERIOR	158	--	213
SACRAMENTO	80	--	98
SAN JOAQUIN	--	--	98
SOUTHERN	--	--	--
ALL AREAS	174	--	155

Table 42—Log consumption by veneer and plywood mills, by type of material and resource area, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	ALL TYPES	SOUND LOGS	UTILITY LOGS
NORTH COAST	41,520	38,790	2,730
CENTRAL COAST	--	--	--
NORTHERN INTERIOR	93,637	91,602	2,035
SACRAMENTO AND SAN JOAQUIN 1/	23,233	22,842	391
SOUTHERN	--	--	--
ALL AREAS	158,390	153,234	5,156

1/Combined to avoid disclosure.

Table 43—Log consumption by veneer and plywood mills, by age group of timber and resource area, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	ALL AGE GROUPS	OLD GROWTH (100 YEARS AND OLDER)	YOUNG GROWTH (LESS THAN 100 YEARS)
NORTH COAST	41,520	37,885	3,635
CENTRAL COAST	--	--	--
NORTHERN INTERIOR	93,637	87,960	5,677
SACRAMENTO AND SAN JOAQUIN 1/	23,233	21,931	1,302
SOUTHERN	--	--	--
ALL AREAS	158,390	147,776	10,614

1/Combined to avoid disclosure.

Table 44—Log inventory, log consumption, and estimated log receipts by veneer and plywood mills, by resource area, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	LOG INVENTORY			LOG CONSUMPTION	ESTIMATED LOG RECEIPTS
	JANUARY 1,1982	DECEMBER 31,1982	NET CHANGE		
NORTH COAST	21,973	19,260	-2,713	41,520	38,807
CENTRAL COAST	--	--	--	--	--
NORTHERN INTERIOR	39,275	42,548	+3,273	93,637	96,910
SACRAMENTO AND SAN JOAQUIN 1/	8,817	9,701	+884	23,233	24,117
SOUTHERN	--	--	--	--	--
ALL AREAS	70,065	71,509	+1,444	158,390	159,834

1/Combined to avoid disclosure.

Table 45—Log consumption by veneer and plywood mills, by ownership class, resource area, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY		OTHER PRIVATE
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
NORTH COAST	41,520	--	4,110	--	--	27,610	8,905	895
CENTRAL COAST	--	--	--	--	--	--	--	--
NORTHERN INTERIOR	93,637	--	15,335	130	--	32,909	42,538	2,725
SACRAMENTO AND SAN JOAQUIN 1/	23,233	--	9,443	--	--	13,725	--	65
SOUTHERN	--	--	--	--	--	--	--	--
ALL AREAS	158,390	--	28,888	130	--	74,244	51,443	3,685

1/Combined to avoid disclosure.

Table 46—Dependency (%) of veneer and plywood mills on logs by ownership class, and resource area, California, 1982

(NUMBER OF MILLS)

RESOURCE AREA	NATIONAL FOREST				STATE				BUREAU OF LAND MANAGEMENT			
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%
NORTH COAST	2	1	--	--	3	--	--	--	3	--	-	--
CENTRAL COAST	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN INTERIOR	--	-	-	1	4	--	--	--	3	1	--	--
SACRAMENTO AND SAN JOAQUIN 1/	1	--	1	1	1	--	-	--	3	--	--	--
SOUTHERN	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS	3	4	1	2	13	--	--	--	9	1	--	--

RESOURCE AREA	OTHER PUBLIC				FOREST INDUSTRY								OTHER PRIVATE			
					OWN WOOD SUPPLY				OTHER WOOD SUPPLY							
	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-100%	0%	1-32%	33-66%	67-10
NORTH COAST	3	--	--	--	1	--	--	2	2	--	1	--	1	2	--	--
CENTRAL COAST	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN INTERIOR	4	--	--	--	2	--	2	--	1	--	2	1	1	3	--	--
SACRAMENTO AND SAN JOAQUIN 1/	3	--	--	--	1	--	1	1	3	--	--	--	2	1	--	--
SOUTHERN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ALL AREAS	10	--	--	--	4	--	3	3	6	--	3	1	4	6	--	--

1/Combined to avoid disclosure.

Table 47—Log consumption by veneer and plywood mills, by species, resource area, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

ESOURCE AREA	ALL SPECIES	DOUGLAS-FIR	REDWOOD	TRUE FIRS	SUGAR PINE	PONDEROSA PINE	LODGEPOLE PINE	INCENSE-CEDAR	OTHER SOFTWOODS	HARDWOODS
ORTH COAST	41,520	30,289	5,596	2,740	--	--	--	--	2,895	--
ENTRAL COAST	--	--	--	--	--	--	--	--	--	--
ORTHERN INTERIOR	93,637	13,784	--	76,244	462	2,685	462	--	--	--
ACRAMENTO AND SAN JOAQUIN 1/	23,233	3,910	--	18,692	13	586	32	--	--	--
OUTHERN	--	--	--	--	--	--	--	--	--	--
ALL AREAS	158,390	47,983	5,596	97,676	475	3,271	494	--	2,895	--

/Combined to avoid disclosure.

Table 48—Production and disposition of wood and bark residue by veneer and plywood mills, by resource area, California, 1982

(TONS, DRY WEIGHT)

ESOURCE AREA ND COUNTY	ALL RESIDUE			WOOD RESIDUE			BARK RESIDUE		
	TOTAL	USED 1/	UNUSED	TOTAL	USED 1/	UNUSED	TOTAL	USED 1/	UNUSED
ORTH COAST	65,633	65,633	--	50,089	50,089	--	15,544	15,544	--
ENTRAL COAST	--	--	--	--	--	--	--	--	--
ORTHERN INTERIOR	142,211	142,211	--	111,492	111,492	--	30,719	30,719	--
ACRAMENTO AND SAN JOAQUIN 2/	35,288	35,288	--	27,671	27,671	--	7,617	7,617	--
OUTHERN	--	--	--	--	--	--	--	--	--
ALL AREAS	243,132	243,132	--	189,252	189,252	--	53,880	53,880	--

/Residues are not necessarily used in the area or county in which they are produced.

/Sacramento and San Joaquin combined to avoid disclosure.

Table 49—Production and disposition of wood residue by veneer and plywood mills, by type of residue, us resource area, California, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA	TOTAL	USED 1/				UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS
			ALL TYPES OF RESIDUE			
NORTH COAST	50,089	50,089	37,801	4,429	2,275	5,584	--
CENTRAL COAST	--	--	--	--	--	--	--
NORTHERN INTERIOR	111,492	111,492	74,512	--	17,012	19,968	--
SACRAMENTO AND SAN JOAQUIN 2/	27,671	27,671	666	--	22,155	4,850	--
SOUTHERN	--	--	--	--	--	--	--
ALL AREAS	189,252	189,252	112,979	4,429	41,442	30,402	--
			COARSE RESIDUE 3/			
NORTH COAST	49,634	49,634	37,801	4,429	1,820	5,584	--
CENTRAL COAST	--	--	--	--	--	--	--
NORTHERN INTERIOR	108,090	108,090	74,512	--	13,610	19,968	--
SACRAMENTO AND SAN JOAQUIN 2/	26,823	26,823	666	--	21,307	4,850	--
SOUTHERN	--	--	--	--	--	--	--
	184,547	184,547	112,979	4,429	36,737	30,402	--
			FINE RESIDUE 4/			
NORTH COAST	455	455	--	--	455	--	--
CENTRAL COAST	--	--	--	--	--	--	--
NORTHERN INTERIOR	3,402	3,402	--	--	3,402	--	--
SACRAMENTO AND SAN JOAQUIN 2/	848	848	--	--	848	--	--
SOUTHERN	--	--	--	--	--	--	--
ALL AREAS	4,705	4,705	--	--	4,705	--	--

1/Residues are not necessarily used in the area or county in which they are produced.

2/Sacramento and San Joaquin combined to avoid disclosure.

3/Coarse residue includes log trim, cores, veneer clippings, rejected veneer, roundup, and spur trim.

4/Fine residue includes sander dust.

ble 50—Production and disposition of bark residue by veneer and plywood mills, by use, resource area, lifornia, 1982

(TONS, DRY WEIGHT)

SOURCE AREA	ALL BARK	USED 1/					UNUSED
		TOTAL	PULP	BOARD	FUEL	MISCELLANEOUS	
RTH COAST	15,544	15,544	--	--	15,544	--	--
NTRAL COAST	--	--	--	--	--	--	--
RTHERN INTERIOR	30,719	30,719	--	--	30,719	--	--
CRAMENTO AND SAN JOAQUIN 2/	7,617	7,617	--	--	7,549	68	--
UTHERN	--	--	--	--	--	--	--
ALL AREAS	53,880	53,880	--	--	53,812	68	--

Residues are not necessarily used in the area or county in which they are produced.

Sacramento and San Joaquin combined to avoid disclosure.

Table 51—Number of pulpmills and board mills by type of operation, resource area, and county, California, 1982

RESOURCE AREA AND COUNTY	ALL MILLS	PULPMILL				BOARD MILL		
		SULFITE	SULFATE	GROUNDWOOD	SEMICHEMICAL	HARDBOARD	PARTICLE BOARD	INSULAT BOARD
NORTH COAST:								
DEL NORTE	1	--	--	--	--	--	1	--
HUMBOLDT	3	--	2	--	--	--	1	--
MENDOCINO	1	--	--	--	--	1	--	--
TOTAL	5	--	2	--	--	1	2	--
CENTRAL COAST:								
CONTRA COSTA	1	--	1	--	--	--	--	--
TOTAL	1	--	1	--	--	--	--	--
NORTHERN INTERIOR:								
SHASTA	1	--	1	--	--	--	--	--
TOTAL	1	--	1	--	--	--	--	--
SACRAMENTO:								
BUTTE	1	--	--	--	--	1	--	--
PLACER	1	--	--	--	--	1	--	--
PLUMAS	1	--	--	--	--	--	1	--
TOTAL	3	--	--	--	--	2	1	--
SAN JOAQUIN	--	--	--	--	--	--	--	--
SOUTHERN	--	--	--	--	--	--	--	--
ALL AREAS	10	--	4	--	--	3	3	--

able 52—Installed capacity of pulpmills and board mills by type of operation, resource area, and county, alifornia, 1982

SOURCE AREA D COUNTY	PULPMILL				BOARD MILL		
	SULFITE	SULFATE	GROUNDWOOD	SEMICHEMICAL	HARDBOARD	PARTICLE BOARD	INSULATION BOARD
	24-HOUR CAPACITY (TONS)				ANNUAL CAPACITY (MILLION SQUARE FEET) 1/8-INCH BASIS	3/4-INCH BASIS	1/2-INCH BASIS
RTH COAST:							
DEL NORTE	--	--	--	--	--	26	--
HUMBOLDT	--	1,225	--	--	--	100	--
IENDOCINO	--	--	--	--	580	--	--
TOTAL	--	1,225	--	--	580	126	--
NTRAL COAST:							
CONTRA COSTA	--	585	--	--	--	--	--
TOTAL	--	585	--	--	--	--	--
RTHERN INTERIOR:							
SHASTA	--	225	--	--	--	--	--
TOTAL	--	225	--	--	--	--	--
CRAMENTO:							
BUTTE	--	--	--	--	164	--	--
PLACER	--	--	--	--	75	--	--
PLUMAS	--	--	--	--	--	25	--
TOTAL	--	--	--	--	239	25	--
N JOAQUIN	--	--	--	--	--	--	--
UTHERN	--	--	--	--	--	--	--
L AREAS	--	2,035	--	--	819	151	--

Table 53—Number of pulpmills and board mills by tenure of present owner, t of mill, and years at present site, California, 1982

TYPE OF MILL AND YEARS AT PRESENT SITE	ALL MILLS	TENURE OF PRESENT OWNER (YEARS)				
		0-2	3-5	6-10	11-20	21
SULFATE:						
11-20	3	1	--	--	2	
21 PLUS	1	--	1	--	--	
TOTAL	4	1	1	--	2	
HARDBOARD:						
6-10	2	--	1	1	--	
21 PLUS	1	--	--	--	--	
TOTAL	3	--	1	1	--	
PARTICLE BOARD:						
11-20	1	--	--	--	1	
21 PLUS	2	--	--	1	--	
TOTAL	3	--	--	1	1	
ALL TYPES	10	1	2	2	3	

Table 54—Average number of operating days per year of pulpmills and board mills by resource area, California, 1982

RESOURCE AREA	PULPMILL	BOARD MILL
NORTH COAST	286	268
CENTRAL COAST	330	--
NORTHERN INTERIOR	320	--
SACRAMENTO	--	183
SAN JOAQUIN	--	--
SOUTHERN	--	--
ALL AREAS	305	226

ble 55—Wood consumption by pulpmills and board mills, by type of material and resource area, lifornia, 1982

SOURCE AREA	ROUNDWOOD			OTHER WOOD					
					CHIPS				
	TOTAL	SOUND LOGS	UTILITY LOGS	TOTAL	FROM MILL RESIDUE	FROM ROUNDWOOD CHIPPING MILL	SAWDUST	SHAVINGS	BARK
	THOUSAND BOARD FEET, SCRIBNER LOG RULE			TONS, DRY WEIGHT					
RTH COAST AND ENTRAL COAST 1/	27,695	20,771	6,924	1,183,0682	1,046,041	70,219	30,068	36,740	--
RTHERN INTERIOR AND ACRAMENTO 1/	--	--	--	329,800	216,200	12,000	2,400	99,200	--
N JOAQUIN	--	--	--	--	--	--	--	--	--
UTHERN	--	--	--	--	--	--	--	--	--
ALL AREAS	27,695	20,771	6,924	1,512,868	1,262,241	82,219	32,468	135,940	--

Combined to avoid disclosure

ble 56—Log consumption by pulpmills and board mills, by age group of nber and resource area, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

SOURCE AREA	ALL AGE GROUPS	OLD GROWTH (100 YEARS AND OLDER)	YOUNG GROWTH (LESS THAN 100 YEARS)
RTH COAST AND ENTRAL COAST 1/	27,695	19,387	8,308
RTHERN INTERIOR	--	--	--
RAMENTO	--	--	--
N JOAQUIN	--	--	--
THERN	--	--	--
ALL AREAS	27,695	19,387	8,308

ombined to avoid disclosure.

Table 57—Log consumption by pulpmills and board mills, by ownership class and resource area, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

RESOURCE AREA	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY		P
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
NORTH COAST AND CENTRAL COAST 1/	27,695	--	4,154	--	--	--	23,541	
NORTHERN INTERIOR	--	--	--	--	--	--	--	
SACRAMENTO	--	--	--	--	--	--	--	
SAN JOAQUIN	--	--	--	--	--	--	--	
SOUTHERN	--	--	--	--	--	--	--	
ALL AREAS	27,695	--	4,154	--	--	--	23,541	

1/Combined to avoid disclosure.

Table 58—Pulpmill and board mill consumption of mill residue and chips from other sources, by state of origin, resource area, and type of material, California, 1982

(TONS, DRY WEIGHT)

RESOURCE AREA AND TYPE OF MATERIAL	TOTAL	CALIFORNIA	OREGON
NORTH COAST AND CENTRAL COAST 1/:			
CHIP RESIDUE	1,046,041	1,039,866	6,175
CHIPS, OTHER SOURCES	70,219	70,219	--
SAWDUST AND SHAVINGS	66,808	60,634	6,174
TOTAL	1,183,068	1,170,719	12,349
NORTHERN INTERIOR AND SACRAMENTO 1/:			
CHIP RESIDUE	216,200	216,200	--
CHIPS, OTHER SOURCES	12,000	--	12,000
SAWDUST AND SHAVINGS	101,600	101,600	--
TOTAL	329,800	317,800	12,000
SAN JOAQUIN	--	--	--
SOUTHERN	--	--	--
ALL AREAS:			
CHIP RESIDUE	1,262,241	1,256,066	6,175
CHIPS, OTHER SOURCES	82,219	70,219	12,000
SAWDUST AND SHAVINGS	168,408	162,234	6,174
TOTAL	1,512,868	1,488,519	24,349

1/ Combined to avoid disclosure.

Table 59—Number of "other industry" mills by type of industry, resource area, and county, California, 1982

RESOURCE AREA AND COUNTY	ALL TYPES	SHAKE AND SHINGLE	EXPORT	POST, POLE, AND PILING
NORTH COAST:				
HUMBOLDT	5	2	3	--
MENDOCINO	2	2	--	--
TOTAL	7	4	3	--
CENTRAL COAST	--	--	--	--
NORTHERN INTERIOR:				
SHASTA	1	--	--	1
SISKIYOU	1	--	--	1
TOTAL	2	--	--	2
SACRAMENTO:				
BUTTE	1	--	--	1
SACRAMENTO	1	--	1	--
TOTAL	2	--	1	1
SAN JOAQUIN:				
SAN JOAQUIN	1	--	--	1
TOTAL	1	--	--	1
SOUTHERN:				
LOS ANGELES	1	--	--	1
TOTAL	1	--	--	1
ALL AREAS	13	4	4	5

Table 60—Installed capacity of "other industry" mills by resource area and county, California, 1982

RESOURCE AREA AND COUNTY	SHAKE AND SHINGLE	POLE, POST, AND PILING
	8-HOUR CAPACITY (SQUARES)	ANNUAL CAPACITY (THOUSAND BOARD FE SCRIBNER LOG RULE
NORTH COAST:		
HUMBOLDT	130	--
MENDOCINO	24	--
TOTAL	154	--
CENTRAL COAST	--	--
NORTHERN INTERIOR:		
SHASTA	--	5,215
SISKIYOU	--	4,500
TOTAL	--	9,715
SACRAMENTO:		
BUTTE	--	33,215
TOTAL	--	33,215
SAN JOAQUIN:		
SAN JOAQUIN	--	25,375
TOTAL	--	25,375
SOUTHERN:		
LOS ANGELES	--	8,760
TOTAL	--	8,760
ALL AREAS	154	77,065

Table 61—Number of "other industry" mills by years of tenure of present ownership, type of mill, and years at present site, California, 1982

TYPE OF MILL AND YEARS AT PRESENT SITE	ALL MILLS	TENURE OF PRESENT OWNER (YEARS)				
		0-2	3-5	6-10	11-20	21 PLUS
SHAKE AND SHINGLE:						
6-10	1	--	--	--	1	--
11-20	3	--	--	1	2	--
TOTAL	4	--	--	1	3	--
POST, POLE, AND PILING:						
21 PLUS	5	--	--	--	--	5
TOTAL	5	--	--	--	--	5

Table 62—Average number of operating days per year of "other industry" mills by type of mill and resource area, California, 1982

RESOURCE AREA	SHAKE AND SHINGLE	POST, POLE, AND PILING
NORTH COAST	139	--
CENTRAL COAST	--	--
NORTHERN INTERIOR	--	308
SACRAMENTO	--	300
SAN JOAQUIN	--	365
SOUTHERN	--	220
ALL AREAS	139	300

Table 63—Wood consumption by "other industry" mills, by type of material and type of mill, California, 1982

TYPE OF MILL	ALL WOOD	ROUNDWOOD			OTHER WOOD
		TOTAL ROUNDWOOD	SOUND LOGS	UTILITY LOGS	
SHAKE AND SHINGLE	1,184	538	368	170	646
EXPORT	29,874	29,874	29,874	--	--
POST, POLE, AND PILING	11,538	11,538	11,538	--	--
TOTAL	42,596	41,950	41,780	170	646

Table 64—Log consumption by "other industry" mills, by age group of timber and type of mill, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

TYPE OF MILL	ALL AGE GROUPS	OLD GROWTH (100 YEARS AND OLDER)	YOUNG GROWTH (LESS THAN 100 YEARS)
SHAKE AND SHINGLE	538	516	22
EXPORT	29,874	13,686	16,188
POST, POLE, AND PILING	11,538	1,453	10,085
TOTAL	41,950	15,655	26,295

Table 65—Log consumption by "other industry" mills, by ownership class and type of mill, California, 198

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

TYPE OF MILL	ALL OWNERS	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	OTHER PUBLIC	FOREST INDUSTRY		OTH PRIV
						OWN WOOD SUPPLY	OTHER WOOD SUPPLY	
SHAKE AND SHINGLE	538	--	22	--	22	--	381	1
EXPORT	29,874	150	--	300	--	640	28,413	3
POST, POLE, AND PILING	11,538	--	165	165	--	119	6,306	4,7
TOTAL	41,950	150	187	465	22	759	35,100	5,2

Table 66—Log consumption by "other industry" mills, by species and type of mill, California, 1982

(THOUSAND BOARD FEET, SCRIBNER LOG RULE)

YPE OF MILL	ALL SPECIES	DOUGLAS-FIR	REDWOOD	TRUE FIRS	SUGAR PINE	PONDEROSA PINE	LODGEPOLE PINE	INCENSE-CEDAR	OTHER SOFTWOODS	HARDWOODS
HAKE AND SHINGLE	538	--	--	--	--	--	--	360	178	--
XPORT	29,874	3,071	2,500	21,013	71	107	--	71	3,041	--
OST, POLE, AND PILING	11,538	9,583	--	--	--	1,710	245	--	--	--
TOTAL	41,950	12,654	2,500	21,013	71	1,817	245	431	3,219	--

Table 67—Production and disposition of wood and bark residues by shake and shingle mills, California, 1982

(TONS, DRY WEIGHT)

YPE OF RESIDUE	TOTAL	USED 1/				UNUSED
		TOTAL	PULP AND BOARD	FUEL	OTHER	
OOD	697	695	--	128	567	2
ARK	140	139	--	100	39	1
ALL RESIDUES	837	834	--	228	606	3

/Residues are not necessarily used in the area in which they are produced.

*GPO 593 - 852 (1984)

Howard, James O. California's forest products industry: 1982. Resour. Bull. PNW-119. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; **1984.** 79 p.

This report presents the findings of a 100-percent survey of the primary forest products industry in California for 1982. The survey included the following sectors: lumber; veneer and plywood; pulp and board; shake and shingle; export; and post, pole, and piling. Tabular presentations include characteristics of the industry, nature and flow of logs consumed, and disposition of mill residues, by sector and for the industry as a whole.

Keywords: Forest products industry, mill surveys, wood utilization, mill residues, California.

The **Forest Service** of the U.S. Department of Agriculture is dedicated to the principle of multiple use management of the Nation's forest resources for sustained yields of wood, water, forage, wildlife, and recreation. Through forestry research, cooperation with the States and private forest owners, and management of the National Forests and National Grasslands, it strives — as directed by Congress — to provide increasingly greater service to a growing Nation.

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Production, Prices, Employment, and Trade in Northwest Forest Industries, Second Quarter 1984

Florence K. Ruderman

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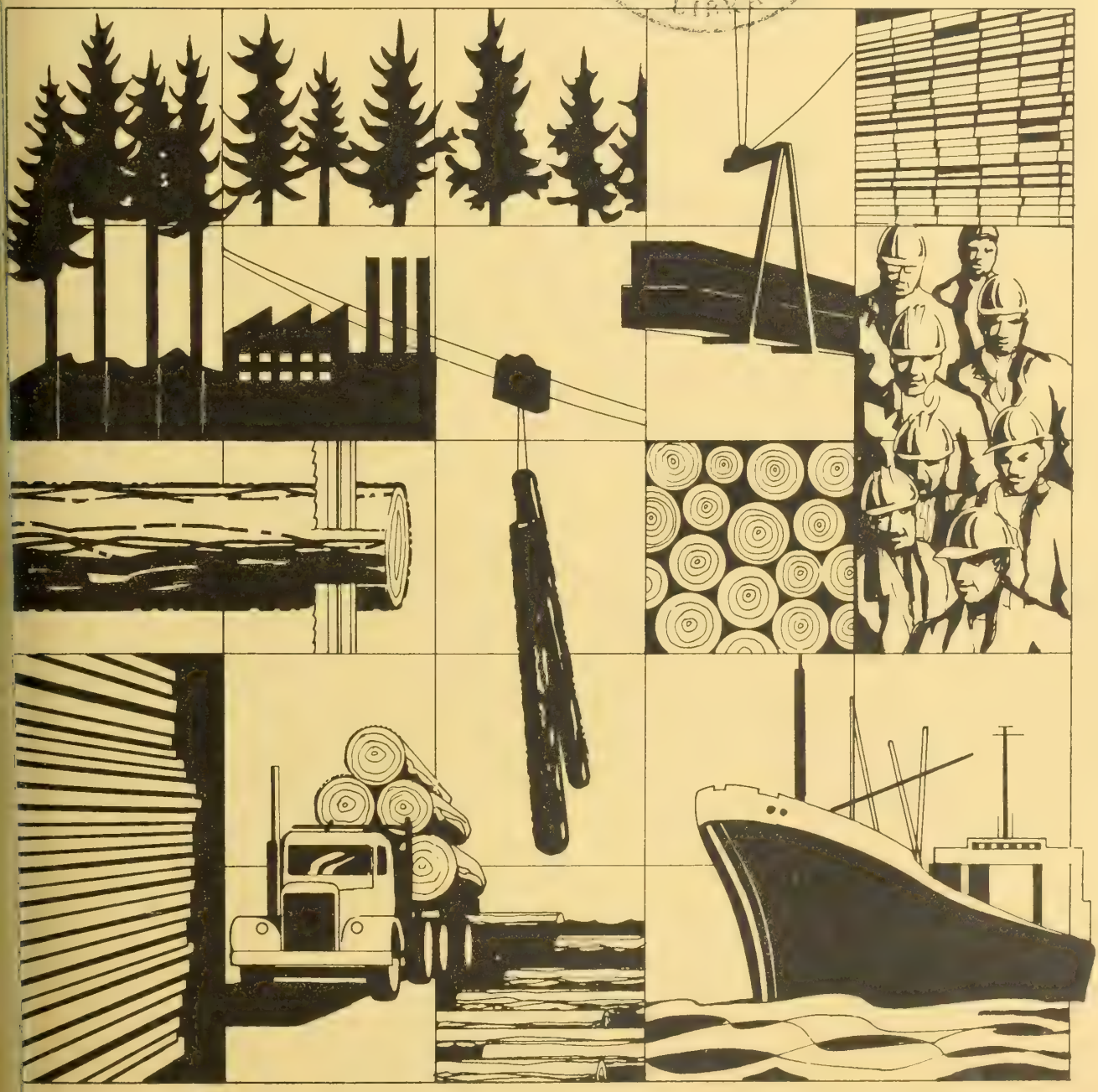

ABSTRACT

Ruderman, Florence K. Production, prices, employment, and trade in Northwest forest industries, second quarter 1984. Resour. Bull. PNW-120. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1984. 61 p.

Provides current information on lumber and plywood production and prices; employment in the forest industries; international trade in logs, lumber, and plywood; volume and average prices of stumpage sold by public agencies; and other related items.

Keywords: Forestry business economics, lumber prices, plywood prices, timber volume, stumpage prices, employment (forest products industries), marketing, (forest products), import/export (forest products), markets (external), economics (forestry business).

PREFACE

This report presents current information on the timber situation in Alaska, Washington, Oregon, California, Montana, Idaho, and British Columbia, including data on lumber and plywood production and prices; timber harvest; employment in forest products industries; international trade in logs, pulpwood, chips, lumber, and plywood; log prices in the Pacific Northwest; volume and average prices of stumpage sold by public agencies; and other related items.

Historical data for the years before 1973 are in the 1979 issues of "Production, Prices, Employment, and Trade in Northwest Forest Industries."

Cooperation in supplying data has been received from the following sources: the U.S. Department of Agriculture, Forest Service, Forest Resources Economics Research Staff in Washington, D.C.; Washington State Department of Natural Resources and Employment Security Department; Oregon State Department of Forestry and Department of Employment; California State Department of Employment and Department of Conservation; Montana State Forester and State Employment Service; Idaho State Department of Public Lands and Department of Employment; Alaska State Department of Labor and Department of Natural Resources of the Division of Lands; U.S. Department of Commerce; U.S. Department of the Interior, Bureau of Land Management and Bureau of Indian Affairs; British Columbia Department of Industrial Development, Trade, and Commerce; and a number of private industry associations, firms, and individuals.

The statistical data are from secondary sources and are brought together to make such information more readily available. Sources are indicated for each table and can be contacted directly for means used in data collection.

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TABLES INCLUDED IN THIS SERIES OF REPORTS, FREQUENCY OF PUBLICATION, AND MOST RECENT QUARTER PUBLISHED

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British Columbia timber harvest, 1972-83	A	Third quarter 1983

1/ A: Published annually as data become available.
B: Published biannually as data become available.
P: Published periodically as data become available.
Q: Published quarterly as data become available.

TABLES INCLUDED IN THIS SERIES OF REPORTS (continued)

Table title	Frequency[1/]	Most recent quarter
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TABLES

Table 1--Softwood lumber production in Western United States by region, and U.S. softwood plywood production, 1973-84

YEAR	SOFTWOOD LUMBER PRODUCTION				U.S. SOFTWOOD PLYWOOD PRODUCTION[3]
	TOTAL SOFTWOOD LUMBER	WESTERN WASHINGTON AND WESTERN OREGON[1]	CALIFORNIA REDWOOD REGION	INLAND REGION[2]	
	Million board feet				Million sq ft, 3/8-inch basis
1973	22,267	9,074	2,629	10,564	18,305
1974	19,425	7,777	2,675	8,973	15,878
1975	17,773	7,134	2,194	8,445	16,050
1976	20,611	8,322	2,500	9,789	18,440
1977	21,558	8,796	2,453	10,309	19,677
1978	20,780	8,845	1,902	10,033	19,936
1979	20,045	8,427	1,838	9,780	20,022
1980	16,045	6,815	1,617	7,613	16,573
1981	15,004	6,339	1,455	7,210	17,073
1982	13,851	5,174	1,342	6,735	17,150
1983	17,798	7,645	1,604	8,549	20,926
1984--					
January	1,588	708	156	724	1,757
February	1,468	666	147	655	1,828
March	1,845	819	153	873	1,973
Total, 1st quarter	4,901	2,193	456	2,252	5,558
April	1,813	793	157	863	1,893
May	1,600	691	150	759	1,958
June	1,668	722	158	788	1,804
Total, 2d quarter	5,081	2,206	465	2,410	5,655
July					
August					
September					
Total, 3d quarter					
October					
November					
December					
Total, 4th quarter					
1984 total					
	-2d quarter 1984 change, in percent				
From--					
1st quarter 1984	3.7	.6	2.0	7.0	1.7
2d quarter 1983	8.9R	6.6R	15.1R	9.9R	9.6E

Source--Western Wood Products Association, Portland, Oregon (western Washington and western Oregon and inland region), National Forest Products Association, Washington, D.C. (California redwood region), and American Plywood Association, Tacoma, Washington (U.S. softwood plywood data).

[1]Includes small amounts of hardwood.

[2]Inland region includes eastern Washington, eastern Oregon, California (except redwood region), Nevada, Idaho, Montana, Wyoming, Utah, Colorado, Arizona, New Mexico, and a portion of South Dakota.

[3]Data for 1974 and 1975 are based in part on sampling.

R = revised.

E = estimated.

able 2--Lumber production in Northwest States, 1973-83

(In million board feet)

EAR	WASHINGTON	OREGON	CALIFORNIA[1]	MONTANA	IDAHO
973	3,642	8,194	5,446R	1,445	1,912
974	3,222	7,007	4,599R	1,165	1,626
975	3,104	6,342	4,153R	1,038	1,631
976	3,661	7,335	4,824	1,197	1,908
977	4,031	7,509	5,052	1,250	1,976
978	4,150	7,416	4,853	1,256	1,932
979	3,841	7,312	4,639	1,257	1,893
980	3,161	5,784	2,179	983	1,391
981	3,243	5,115	3,224	1,032	1,319
982	3,059	4,682	2,987	895	1,245
983	3,821	6,579	3,574	1,316	1,627

ource--Western Wood Products Association, Portland, Oregon.

Since 1970, California production data include one mill in Nevada.

ble 3--Softwood lumber production in the inland region, by species, 1973-83[1/]

n million board feet)

AR	ALL SOFTWOODS	PONDEROSA PINE	IDAHO WHITE PINE	SUGAR PINE	DOUGLAS-FIR AND LARCH	HEM-FIR[2/]	ENGELMANN SPRUCE	LODGEPOLE PINE	OTHER SOFTWOODS
73	10,564	3,863	369	230	2,545	1,992	510	692	363
74	8,973	3,266	267	173	2,382	1,566	330	488	501
75	8,445	3,269	291	193	1,952	1,476	304	395	565
76	9,789	3,757	294	201	2,321	1,655	366	451	744
77	10,309	4,046	293	230	2,343	1,762	434	547	654
78	10,033	3,970	245	213	2,370	1,724	374	498	639
79	9,780	3,728	198	201	2,333	1,794	365	419	742
80	7,613	3,023	166	184	1,644	1,334	262	402	598
81	7,147	2,770	164	173	1,570	1,147	269	419	635
82	6,681	2,649	113	141	1,509	1,029	313	376	551
83	8,488	3,378	163	192	1,851	1,272	323	532	777

urce--Western Wood Products Association, Portland, Oregon.

hland region includes eastern Washington, eastern Oregon, California (except redwood region), Nevada, Idaho, Montana, Wyoming, Utah, lorado, Arizona, New Mexico, and a portion of South Dakota.

estern hemlock and white fir. Before 1979, hemlock was included in "OTHER SOFTWOODS"; since 1979, hemlock is included in "HEM-FIR." historical data are revised to reflect this change.

Table 4--Lumber production in western Washington and western Oregon, by species, 1973-83
(In million board feet)

YEAR	ALL SPECIES	DOUGLAS FIR	HEM-FIR[1]	WESTERN REDCEDAR	SITKA SPRUCE	PINE	OTHER SOFTWOODS	HARDW
1973	9,074	5,659	2,553	369	40	277	36	14
1974	7,777	5,074	1,896	358	32	250	33	13
1975	7,134	4,684	1,683	364	15	233	46	10
1976	8,322	5,363	2,139	367	30	231	64	12
1977	8,796	5,567	2,413	382	21	215	67	13
1978	8,845	5,458	2,444	434	14	277	53	16
1979	8,427	5,228	2,320	346	19	254	81	17
1980	6,941	4,261	1,791	308	7	217	69	16
1981	6,270	3,817	1,660	347	11	198	79	15
1982	5,743	3,570	1,467	335	6	193	56	15
1983	7,934	5,088	1,877	445	6	270	69	17

Source--Western Wood Products Association, Portland, Oregon.

[1]Western hemlock and white fir combined. Before 1979, data for white fir only; since 1979, data are for white fir and hemlock combined.

Table 5--Softwood lumber and plywood production in British Columbia, 1973-83

YEAR	SOFTWOOD LUMBER PRODUCTION			SOFTWOOD PLYWOOD PRODUCTION
	TOTAL	COAST	INTERIOR	
	Million board feet			Million sq ft, 3/8-inch basis
1973	10,311	4,367	5,944	2,197
1974	8,783	3,405	5,378	1,832
1975	7,469	2,507	4,962	1,778
1976	10,680	3,988	6,692	2,191
1977	12,038	4,499	7,539	2,343
1978	12,545	4,803	7,742	2,510
1979	12,517	4,657	7,860R	2,307
1980	11,979	4,252	7,727	2,230
1981	10,424	3,458	6,966	1,923
1982	9,944	3,002	6,942	1,616
1983	13,043	4,140	8,903	1,992

Source--Dominion Bureau of Statistics, Ottawa, Canada.

R = revised.

able 6--Wholesale prices of selected lumber products, 1973-84

(n dollars per thousand board feet)

EAR	DOUGLAS-FIR STD. AND BTR., 2 BY 4 RL, 8/12', KD, NET, F.O.B. MILL	PONDEROSA PINE BOARDS, NO. 3, 1 BY 12 RL, KD, NET, F.O.B. MILL	PONDEROSA PINE, NO. 2 SHOP, 6/4 RWRL, S2S, NET, F.O.B. MILL	FIR-LARCH STD. AND BTR., 2 BY 4 RL, 8/20', KD, NET, F.O.B. MILL	SPRUCE-PINE-FIR STD. AND BTR., 2 by 4 RL, 8/20', KD, NET, F.O.B. MILL
973	177.00	189.00	233.00	173.00	152.00
974	144.00	162.00	247.00	136.00	120.00
975	148.00	144.00	205.00	144.00	117.00
976	178.00	188.00	318.00	169.00	151.00
977	213.00	229.00	380.00	202.00	173.00
978	241.00	263.00	459.00	238.00	209.00
979	260.00	309.00	479.00	201.00	225.00
980	209.00	296.00	478.00	201.00	168.00
981	190.00	296.00	483.00	181.00	158.00
982	167.00	253.00	357.00	160.00	141.00
983	222.00	258.00	571.00	213.00	185.00
984--					
January	208.25	307.25	593.75	197.00	167.25
February	219.25	327.50	590.00	207.75	187.25
March	226.00	341.00	590.00	221.60	185.80
verage, 1st quarter	217.83	325.25	591.25	208.78	180.10
pril	221.75	321.25	577.50	201.67	166.50
ay	198.25	303.75	528.75	183.00	146.50
une	192.60	296.00	500.00	179.60	138.60
verage, 2d quarter	204.20	307.00	535.42	188.09	150.53
uly					
ugust					
eptember					
verage, 3d quarter					
ctober					
ovember					
ecember					
verage, 4th quarter					
984 average					
	- 2d quarter 1984 change, in percent -				
om--					
st quarter 1984	-6.3	-5.6	-9.4	-9.9	-16.4
d quarter 1983	-15.3	18.1	-9.7	-20.3	-30.3

urce--Random Lengths Publications, Inc.

Table 7--Wholesale prices of selected softwood plywood products, 1973-84

(In dollars per thousand square feet)

YEAR	SHEATHING, WESTERN EXTERIOR, 3/8-INCH, CD, NET F.O.B. MILL	SHEATHING, SOUTHERN (WEST)1/ EXTERIOR, 3/8-INCH, CD, NET F.O.B. MILL	SANDED, WESTERN INTERIOR, 1/4-INCH, AD, NET F.O.B. MILL
1973	107.00	100.00	127.00
1974	92.00	94.00	140.00
1975	99.00	95.00	146.00
1976	127.00	125.00	160.00
1977	157.00	159.00	183.00
1978	169.00	174.00	214.00
1979	164.00	156.00	221.00
1980	155.00	155.00	211.00
1981	148.00	140.00	203.00
1982	135.00	139.00	185.00
1983	154.00	158.00	179.00
1984--			
January	151.75	152.25	179.75
February	157.00	156.50	185.25
March	156.40	155.60	183.80
Average, 1st quarter	155.05	154.78	182.93
April	146.25	146.75	174.75
May	142.50	138.75	165.00
June	144.20	136.80	162.60
Average, 2d quarter	144.32	140.77	167.45
July			
August			
September			
Average, 3d quarter			
October			
November			
December			
Average, 4th quarter			
1984 average			
	- - - - - - - - 2d quarter 1984 change, in percent - - - - - -		
From--			
1st quarter 1984	-6.9	-9.1	-8.5
2d quarter 1983	-7.5	-14.2	-11.4.

Source--Random Lengths Publications, Inc.

1/ Texas, Louisiana, Arkansas.

able 8--Employment in forest products industries in Washington, Oregon, and Alaska, 1973-84

(In thousands of persons)

EAR	WASHINGTON AND OREGON			WASHINGTON			OREGON			ALASKA		
	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PULP AND ALLIED PRODUCTS
973	155.3	127.9	27.4	66.8	49.1	17.7	88.5	78.8	9.7	--	2.3	1/
974	152.1	124.5	27.6	67.3	49.7	17.6	84.8	74.8	10.0	--	2.5	1/
975	137.2	110.8	26.4	60.4	43.8	16.6	76.8	67.0	9.8	--	2.0	1/
976	150.9	123.4	27.5	68.4	51.0	17.4	82.5	72.4	10.1	3.4	2.3	1.1
977	159.2	131.4	27.8	71.6	53.9	17.7	87.6	77.5	10.1	3.6	2.2	1.4
978	159.3	136.5	22.8	69.1	55.1	14.0	90.2	81.4	8.8	2.9	1.8	1.1
979	159.0	133.4	25.6	68.4	52.6	15.8	90.6	80.8	9.8	3.0	2.0	1.0
980	144.1	116.1	28.0	64.1	46.5	17.6	80.0	69.6	10.4	3.4	2.3	1.1
981	135.6	108.1	27.5	61.6	44.4	17.2	74.0	63.7	10.3	2.8	1.9	.9
982	120.4	94.5	25.9	55.2	39.0	16.2	65.2	55.5	9.7	2.6	1.8	.8
983	129.3	104.0	25.3	57.6	41.7	15.9	71.7	62.3	9.4	2.7	1.9	.8
984--												
January	127.3	102.2	25.1	54.9	39.1	15.8	72.4	63.1	9.3	1.8	1.1	.7
February	128.4	103.3	25.1	55.8	40.0	15.8	72.6	63.3	9.3	1.8	1.1	.7
March	131.1	105.8	25.3	57.4	41.4	16.0	73.7	64.4	9.3	2.0	1.3	.7
Average, 1st quarter	128.9	103.8	25.1	56.0	40.2	15.8	72.9	63.6	9.3	1.9	1.2	.7
April	132.6	107.4	25.2	58.1	42.1	16.0	74.5	65.3	9.2	2.6P	1.8P	.7P
May	133.2	107.7	25.5	58.6	42.4	16.2	74.6	65.3	9.3	2.7P	2.0P	.7P
June	135.9	109.8	26.1	59.7	43.2	16.5	76.2	66.6	9.6	3.0P	2.3P	.7P
Average, 2d quarter	133.9	108.3	25.6	58.8	42.6	16.2	75.1	65.7	9.4	2.7P	2.0P	.7P
July												
August												
September												
Average, 3d quarter												
October												
November												
December												
Average, 4th quarter												
1984 average												
	- 2d quarter 1984 change in employment -											
om--												
st quarter 1984	5.0	4.5	.5	2.8	2.4	.4	2.2	2.1	.1	.8P	.8P	0P
d quarter 1983	5.3R	4.5R	.8R	1.1R	.4R	.7R	4.2R	4.1R	.1R	-.4P	-.4P	0P

urce--State employment agencies. Includes both covered and noncovered employment. The lumber and wood products industry includes logging, lumber, lywood, poles and piling, and miscellaneous wood products (excludes furniture). The paper and allied products industry includes pulp, paper, paperard, and building board products. Since April 1974, employment data have been based on place of residence.

ithheld to avoid disclosure.

= preliminary.

= revised.

Table 9--Employment in forest products industries in California, 1973-84

(In thousands of persons)

YEAR	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS
1973	90.2	54.1	36.1
1974	88.2	50.9	37.3
1975	87.3	52.8	34.5
1976	96.6	59.9	36.7
1977	104.2	66.6	37.6
1978	107.1	69.9	37.2
1979	107.8	68.7	39.1
1980	101.3	62.6	38.7
1981	96.6	57.9	38.7
1982	83.7	46.2	37.5
1983	87.5	50.2	37.3
1984--			
January	89.6	51.5	38.1
February	90.9	52.5	38.4
March	92.1	53.5	38.6
Average, 1st quarter	90.9	52.5	38.4
April			
May			
June			
Average, 2d quarter			
July			
August			
September			
Average, 3d quarter			
October			
November			
December			
Average, 4th quarter			
1984 average			
	- - - - 1st quarter 1984 change in employment - - -		
From--			
4th quarter 1983	-1.1	-1.7	.6
1st quarter 1983	13.3	11.4	1.9

Source--State of California, Department of Employment. Since April 1974, data have been based on place of residence.

able 10--Employment in forest products industries in Montana and Idaho, 1973-84

In thousands of persons)

EAR	MONTANA			IDAHO	
	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS
973	9.8	1/	16.3	15.1	1.2
974	9.5	1/	15.7	14.6	1.1
975	8.1	1/	16.8	15.7	1.1
976	9.1	1/	18.6	17.4	1.2
977	9.3	1/	19.0	17.8	1.2
978	10.7	1/	20.1	18.8	1.3
979	11.1	1/	19.9	18.5	1.4
980	8.7	1/	17.5	16.1	1.4
981	8.8	1/	16.6	15.1	1.5
982	6.8	1/	13.6	12.1	1.5
983	8.0	1/	15.6	14.0	1.6
984--					
January	7.8	1/	15.6	13.9	1.7
February	7.7	1/	15.3	13.7	1.6
March	7.6	1/	14.1	12.4	1.7
Average, 1st quarter	7.7	1/	15.0	13.3	1.7
April	7.7	1/	14.0	12.4	1.6
May	7.9	1/	15.1	13.4	1.7
June	8.1	1/	16.7	15.0	1.7
Average, 2d quarter	7.9	1/	15.3	13.6	1.7
July					
August					
September					
Average, 3d quarter					
October					
November					
December					
Average, 4th quarter					
1984 average					
	- - - - - - - - - - 2d quarter 1984 change in employment - - - - - - - - - -				
rom--					
1st quarter 1984	.2	1/	.3	.3	0
2d quarter 1983	0	1/	.2R	.2R	0R

ource--State employment agencies. Since April 1974, employment data have been based on place of esidence.

. Withheld to avoid disclosing figures for individual companies.

l = revised.

Table 11-Softwood log exports from Washington and Oregon ports, by origin, species, and destination, 1973-84

(In thousand board feet, Scribner scale)

Year and quarter	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
TO UNITED STATES											
1973	2,639,210	864,474	20,966	1,753,770	1,833,293	[illegible]	1,277,969	805,917	309,150	20,966	475,801
1974	2,189,367	715,514	17,481	1,456,372	1,423,570	[illegible]	1,018,686	765,797	310,630	17,481	437,686
1975	2,225,487	765,840	24,361	1,435,286	1,427,387	437,290	990,097	798,100	328,550	24,361	445,189
1976	2,737,074	945,649	26,576	1,764,849	1,792,944	527,889	1,265,055	944,130	417,760	26,576	499,794
1977	2,555,615	966,763	16,721	1,572,131	1,674,860	556,419	1,118,441	880,755	410,344	16,721	453,690
1978	2,847,394	1,139,267	24,493	1,683,634	1,915,979	619,500	1,296,479	931,415	519,767	24,493	387,155
1979	3,233,652	1,309,179	22,693	1,901,780	2,249,963	732,392	1,517,571	983,689	576,787	22,693	384,209
1980	2,631,817	1,262,210	12,300	1,357,307	1,699,138	645,073	1,054,065	932,679	617,137	12,300	303,242
1981	1,987,159	1,017,154	15,520	954,485	1,315,882	579,034	736,848	671,277	438,120	15,520	217,637
1982	2,567,644	1,427,835	11,299	1,128,510	1,596,793	729,844	866,949	970,851	697,991	11,299	261,561
1983--											
1st qtr.	577,494	305,497	1,963	[illegible]	401,147	181,023	220,124	176,347	124,474	1,963	49,910
2d qtr.	609,927	333,481	1,486	274,960	412,019	187,493	224,526	197,908	145,988	1,486	50,434
3d qtr.	762,363	416,444	3,063	342,856	514,979	239,157	[illegible]	247,384	177,287	3,063	67,034
4th qtr.	641,735	362,296	2,420	277,019	411,631	188,626	223,005	[illegible]	173,670	2,420	54,014
1983 total	2,591,519	1,417,718	8,932	1,164,869	1,739,776	796,299	943,477	851,743	621,419	8,932	221,392
1984--											
1st qtr.	652,036	375,222	2,412	274,402	449,836	222,174	227,662	[illegible]	153,048	2,412	46,740
2d qtr.	760,432	444,034	3,127	313,271	487,171	[illegible]	251,466	273,261	208,329	3,127	61,805
3d qtr.											
4th qtr.											
1984 total											
TO JAPAN											
1973	2,455,485	822,160	20,966	1,612,359	1,663,203	520,373	1,142,830	792,282	301,787	20,966	469,529
1974	1,975,575	638,225	17,342	1,320,008	1,237,653	341,890	895,763	737,922	296,335	17,342	424,245
1975	2,014,244	732,264	24,361	1,257,619	1,255,817	410,721	845,096	758,427	321,543	24,361	412,523
1976	2,547,037	901,911	24,573	1,620,553	1,623,064	491,451	1,131,613	923,973	410,460	24,573	488,940
1977	2,348,325	933,813	16,721	1,397,791	1,496,627	526,255	970,372	851,698	407,558	16,721	427,419
1978	2,521,885	1,103,562	22,814	1,395,509	1,630,247	589,654	1,040,593	891,638	513,908	22,814	354,916
1979	2,959,726	1,279,177	20,611	1,659,938	1,998,315	705,921	1,292,394	961,411	573,256	20,611	367,544
1980	2,344,322	1,175,407	12,300	1,156,615	1,488,494	602,605	885,889	855,828	572,802	12,300	270,726
1981	1,603,941	846,474	15,495	741,972	1,003,391	452,724	550,667	600,550	393,750	15,495	191,305
1982	1,738,187	990,634	11,272	736,281	992,903	457,649	535,254	745,284	532,985	11,272	201,027
1983--											
1st qtr.	409,186	214,008	1,963	193,215	252,587	102,641	149,946	156,599	111,367	1,963	43,269
2d qtr.	418,508	241,044	1,486	175,978	253,590	122,555	131,035	164,918	118,489	1,486	44,943
3d qtr.	400,394	230,422	3,063	166,909	228,968	112,900	116,068	171,426	117,522	3,063	50,841
4th qtr.	363,198	210,242	2,420	150,536	198,539	92,341	106,198	164,659	117,901	2,420	44,338
1983 total	1,591,286	895,716	8,932	686,638	933,684	430,437	503,247	657,602	465,279	8,932	183,391
1984--											
1st qtr.	366,226	216,078	2,405	147,743	217,516	103,279	114,237	148,710	112,799	2,405	33,506
2d qtr.	478,092	300,848	3,086	174,158	261,075	127,982	133,093	217,017	172,866	3,086	41,065
3d qtr.											
4th qtr											
1984 total											

able 11-Softwood log exports from Washington and Oregon ports, by origin, species, and destination, 1973-84 (continued)

n thousand board feet, Scribner scale)

AR AND ARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO CANADA						
973	72,164	22,265	--	49,899	72,164	22,265	49,899	--	--	--	--
974	73,664	39,060	--	34,604	73,664	39,060	34,604	--	--	--	--
975	58,506	16,793	--	41,713	58,506	16,793	41,713	--	--	--	--
976	48,289	14,803	--	33,486	48,289	14,803	33,486	--	--	--	--
977	15,698	9,531	--	6,167	15,698	9,531	6,167	--	--	--	--
978	12,638	9,361	--	3,277	12,638	9,361	3,277	--	--	--	--
979	24,124	7,737	--	16,387	24,124	7,737	16,387	--	--	--	--
980	985	395	--	590	985	395	590	--	--	--	--
981	1,332	392	--	940	1,332	392	940	--	--	--	--
982	4,757	635	--	4,122	4,757	635	4,122	--	--	--	--
983--											
1st qtr.	120	--	--	120	120	--	120	--	--	--	--
2d qtr.	3,014	397	--	2,617	3,014	397	2,617	--	--	--	--
3d qtr.	50	--	--	50	50	--	50	--	--	--	--
4th qtr.	2,032	--	--	2,032	2,032	--	2,032	--	--	--	--
1983 total	5,216	397	--	4,819	5,216	397	4,819	--	--	--	--
1984--											
1st qtr.	3,978	989	--	2,989	3,978	989	2,989	--	--	--	--
2d qtr.	3,406	975	--	2,431	3,406	975	2,431	--	--	--	--
3d qtr.											
4th qtr.											
1984 total											
					TO JAPAN						
973	101,929	15,175	--	86,754	96,680	12,063	84,617	5,249	3,112	--	2,137
974	137,665	36,308	--	101,357	111,580	23,378	88,202	26,085	12,930	--	13,155
975	79,022	13,946	--	65,076	42,100	9,100	33,000	36,922	4,846	--	32,076
976	130,069	26,454	--	103,615	117,007	21,068	95,939	13,062	5,386	--	7,676
977	187,967	21,201	--	166,766	162,252	20,418	141,834	25,715	783	--	24,932
978	307,785	24,844	--	283,021	271,887	20,426	251,461	35,978	4,418	--	31,560
979	245,314	20,342	--	224,972	227,072	18,653	208,419	18,242	1,689	--	16,553
980	191,387	11,796	--	179,591	163,988	9,549	154,439	27,399	2,247	--	25,152
981	147,833	10,919	--	136,914	132,675	9,333	123,342	15,158	1,586	--	13,572
982	254,736	27,809	--	226,927	213,126	23,841	196,285	34,610	3,968	--	30,642
983--											
1st qtr.	60,064	2,551	--	57,513	53,230	2,358	50,872	6,834	193	--	6,641
2d qtr.	79,983	11,588	--	68,395	74,359	11,407	62,952	5,624	181	--	5,443
3d qtr.	81,133	2,642	--	78,492	72,394	756	71,664	8,739	1,515	--	7,224
4th qtr.	64,458	3,004	--	61,454	59,385	1,911	57,474	5,073	1,093	--	3,980
1983 total	285,638	19,388	--	266,250	259,368	16,406	242,962	26,270	2,982	--	23,288
1984--											
1st qtr.	44,960	856	/	44,057	37,999	338	37,661	6,921	518	/	6,396
2d qtr.	81,568	1,985	--	79,583	72,293	1,306	70,987	9,275	679	--	8,596
3d qtr.											
4th qtr.											
1984 total											
					TO MAINLAND CHINA						
980	87,785	69,901	--	17,884	43,271	31,884	11,387	44,514	38,017	--	6,497
981	219,237	149,592	--	69,645	170,779	111,058	59,721	48,458	38,534	--	9,924
982	533,102	390,047	--	143,055	358,762	244,198	114,564	174,340	145,849	--	28,491
983--											
1st qtr.	104,596	86,035	--	18,561	94,305	75,744	18,561	10,291	10,291	--	-
2d qtr.	106,059	78,958	--	27,901	79,999	52,098	27,901	26,860	26,860	--	--
3d qtr.	280,401	183,392	--	97,009	213,563	125,523	88,040	66,838	57,869	--	8,969
4th qtr.	207,384	148,635	--	58,749	147,551	94,211	53,340	59,833	54,424	--	5,409
1983 total	699,240	497,020	--	202,220	535,418	347,576	187,842	163,822	149,444	--	14,378
1984--											
1st qtr.	215,645	155,183	--	60,462	173,563	115,565	57,998	42,082	39,618	--	2,464
2d qtr.	182,437	138,523	--	43,914	135,661	103,858	31,803	46,776	34,665	--	12,111
3d qtr.											
4th qtr.											
1984 total											

Source--U.S. Department of Commerce. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

Table 12--Value of softwood log exports from Washington and Oregon ports, by origin, species, and destination, 1973-84

(In thousand dollars)

Year and quarter	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO ALL COUNTRIES						
1973	[illegible]	209,417	15,451	469,734	449,902	120,796	329,106	244,700	88,621	15,451	140,628
1974	612,521	194,137	17,556	400,828	364,962	103,586	271,376	237,559	90,551	17,556	129,452
1975	603,854	202,377	16,758	384,759	376,706	111,919	264,787	227,148	90,418	16,758	119,972
1976	775,113	266,523	20,086	488,504	490,246	141,989	348,257	284,867	124,534	20,087	140,247
1977	826,698	311,269	17,049	498,380	526,412	171,541	354,871	300,286	139,728	17,049	143,509
1978	992,207	413,645	24,923	553,639	637,818	212,305	425,513	354,389	201,340	24,923	128,126
1979	1,408,036	624,090	24,419	831,527	991,513	331,874	659,639	488,523	292,216	24,419	171,188
1980	1,308,858	634,898	16,596	657,364	835,524	317,744	517,780	473,334	317,154	16,596	139,584
1981	882,942	[illegible]	24,911	381,378	565,564	266,847	298,717	317,378	209,806	24,911	82,661
1982	1,014,909	[illegible]	18,719	395,936	605,089	299,524	305,565	409,820	300,730	18,719	90,371
1983--											
1st qtr.	195,146	[illegible]	[illegible]	87,023	130,221	59,513	70,708	64,925	45,763	2,847	16,315
2d qtr.	209,168	117,059	1,905	90,204	138,401	64,817	73,584	70,767	[illegible]	1,905	16,620
3d qtr.	[illegible]	[illegible]	[illegible]	111,643	[illegible]	82,611	89,070	92,170	65,918	3,679	[illegible]
4th qtr.	224,271	129,314	2,576	92,381	[illegible]	65,370	74,845	84,056	63,944	2,576	17,536
1983 total	892,436	[illegible]	[illegible]	381,251	[illegible]	272,311	308,207	311,918	227,867	11,007	73,044
1984--											
1st qtr.	222,850	132,201	3,071	[illegible]	[illegible]	76,988	72,564	73,298	[illegible]	3,071	15,014
2d qtr.	263,351	157,996	4,081	101,274	163,942	82,223	81,719	99,409	75,773	4,081	[illegible]
3d qtr.											
4th qtr.											
1984 total											
					TO JAPAN						
1973	664,363	[illegible]	15,451	446,968	422,715	115,022	307,693	241,648	86,922	15,451	139,275
1974	569,494	177,961	[illegible]	374,033	338,296	90,400	247,896	231,198	87,561	17,500	126,137
1975	[illegible]	195,469	16,758	348,527	341,885	107,149	234,736	218,869	88,320	16,758	113,791
1976	734,412	256,673	17,918	459,821	457,248	134,894	322,354	277,164	121,779	17,918	137,467
1977	776,630	303,248	17,049	456,333	484,006	164,626	319,380	292,624	138,622	17,049	136,953
1978	[illegible]	[illegible]	22,763	481,730	566,494	204,832	361,662	342,133	199,302	22,763	120,068
1979	1,387,602	612,160	22,271	753,171	910,338	323,034	587,304	477,264	289,126	22,271	165,867
1980	1,190,875	593,484	16,596	580,795	750,369	297,359	453,010	440,506	296,125	16,596	127,785
1981	740,943	404,395	24,889	311,659	451,171	213,444	237,727	289,772	190,951	24,889	73,932
1982	716,343	424,685	18,679	272,979	392,047	190,838	201,209	324,296	233,847	18,679	71,770
1983--											
1st qtr.	146,567	77,446	2,847	66,274	87,522	35,794	51,728	59,045	41,652	2,847	14,546
2d qtr.	152,519	88,469	1,905	62,145	91,862	44,781	47,081	60,657	43,688	1,905	15,064
3d qtr.	147,765	85,702	3,679	58,384	82,897	41,772	41,125	64,868	43,930	3,679	17,259
4th qtr.	136,197	79,554	2,576	54,067	73,844	34,324	39,520	62,353	45,230	2,576	14,547
1983 total	583,048	331,171	11,007	240,870	336,125	156,671	179,454	246,923	174,500	11,007	61,416
1984--											
1st qtr.	134,415	79,816	3,069	51,530	77,850	37,657	40,193	56,565	42,159	3,069	11,338
2d qtr.	174,396	110,386	4,051	59,959	93,507	46,421	47,086	80,889	63,965	4,051	12,873
3d qtr.											
4th qtr.											
1984 total											

le 12--Value of softwood log exports from Washington and Oregon ports, by origin, type of log, and destination, ... (Continued)

thousand dollars)

R AND RTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO CANADA						
3	9,593	2,900	-	6,693	9,593	2,900	6,693	--	--	--	--
4	13,821	8,239	--	5,582	13,821	8,239	5,582	--	--	--	--
5	8,313	2,937	--	5,376	8,313	2,937	5,376	--	--	--	--
6	7,908	2,733	-	5,175	7,908	2,733	5,175	--	--	--	--
7	3,545	2,154	--	1,391	3,545	2,154	1,391	--	--	--	--
8	2,933	2,129	--	804	2,933	2,129	804	--	--	--	--
9	7,223	2,435	--	4,788	7,223	2,435	4,788	--	--	--	--
0	323	133	--	190	323	133	190	--	--	--	--
1	463	173	--	290	463	173	290	--	--	--	--
2	1,068	137	--	931	1,068	137	931	--	--	--	--
3--											
t qtr.	42	--	-	42	42	--	42	--	--	--	--
qtr.	734	55	--	679	734	55	679	--	--	--	--
qtr.	21	--	--	21	21	--	21	--	--	--	--
h qtr.	249	--	--	249	249	--	249	--	--	--	--
83 total	1,046	55	-	991	1,046	55	991	--	--	--	--
4--											
t qtr.	353	84	--	269	353	84	269	--	--	--	--
qtr.	1,057	321	--	736	1,057	321	736	--	--	--	--
qtr.											
h qtr.											
84 total											
					TO SOUTH KOREA						
3	18,506	3,468	-	15,038	17,290	2,725	14,565	1,216	743	--	473
4	25,225	7,303	--	20,922	22,552	4,714	17,838	5,673	2,589	--	3,084
5	14,757	2,688	--	12,069	7,912	1,648	6,264	6,845	1,040	--	5,805
6	27,546	5,664	--	21,882	24,400	4,350	20,050	3,146	1,315	--	1,831
7	44,949	4,811	--	40,138	38,738	4,672	34,066	6,211	139	--	6,072
8	76,839	6,392	--	70,447	67,974	5,333	62,641	8,865	1,059	--	7,806
9	80,173	6,982	--	73,191	73,751	6,378	67,373	6,422	604	--	5,818
0	71,675	4,116	--	67,559	62,108	3,279	58,829	9,567	837	--	8,730
1	47,481	4,027	--	43,454	43,048	3,513	39,535	4,433	514	--	3,919
2	76,415	9,169	--	67,246	66,657	8,136	58,521	9,758	1,033	--	8,725
3--											
t qtr.	16,208	843	--	15,365	14,391	795	13,596	1,817	48	--	1,769
qtr.	22,775	3,224	--	19,551	21,177	3,159	18,018	1,598	65	--	1,533
qtr.	25,787	616	--	25,171	22,689	177	22,512	3,098	439	--	2,659
h qtr.	20,006	798	--	19,208	18,450	499	17,951	1,556	299	--	1,257
83 total	84,776	5,481	--	79,295	76,707	4,630	72,077	8,069	851	--	7,218
4--											
t qtr.	13,097	263	2	12,832	11,194	123	11,071	1,903	140	2	1,761
qtr.	24,127	357	--	23,570	21,214	340	20,874	2,914	217	--	2,697
qtr.											
h qtr.											
84 total											
					TO MAINLAND CHINA						
9	41,433	34,285	--	7,148	21,326	16,692	4,634	20,107	17,593	--	2,514
1	88,000	63,977	--	24,023	67,639	47,363	20,276	20,361	16,614	--	3,747
2	207,078	158,699	--	48,379	138,219	99,194	39,025	68,859	59,505	--	9,354
3--											
qtr.	31,285	26,108	--	5,177	28,007	22,830	5,177	3,278	3,278	--	--
qtr.	32,554	24,756	--	7,798	24,254	16,456	7,798	8,300	8,300	--	--
qtr.	90,005	61,938	--	28,067	66,071	40,659	25,412	23,934	21,279	--	2,655
h qtr.	66,614	48,814	--	17,800	46,650	30,504	16,146	19,964	18,310	--	1,654
13 total	220,458	161,616	--	58,842	164,982	110,449	54,533	55,476	51,167	--	4,309
4--											
qtr.	68,760	51,348	--	17,412	55,232	38,471	16,761	13,529	12,877	--	651
qtr.	59,338	46,112	--	13,226	43,910	34,649	9,261	15,428	11,463	--	3,965
qtr.											
qtr.											
14 total											

ce—U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Washington Customs District includes all ports and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

o: Individual columns may not add to totals because of rounding.

Table 13--Average value of softwood logs exported from Washington and Oregon ports, by origin, species, and destination, 1973-84

(In dollars per thousand board feet, Scribner scale)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO ALL COUNTRIES						
1973	263.19	242.25	736.97	267.84	245.41	217.52	257.52	303.63	286.66	736.97	295.56
1974	279.77	271.33	1,004.29	275.22	263.40	255.84	266.40	310.21	291.51	1,004.29	295.76
1975	271.34	[illegible]	[illegible]	268.07	263.91	255.94	267.43	284.61	275.20	687.90	269.49
1976	283.19	281.84	755.83	276.80	273.43	268.98	275.29	301.73	298.10	755.83	280.61
1977	323.48	321.97	1,019.62	317.01	314.30	308.29	317.26	340.94	340.51	1,019.62	316.32
1978	348.46	363.08	1,017.56	328.84	332.89	342.70	328.21	380.48	387.37	1,017.56	330.94
1979	436.43	476.70	[illegible]	437.24	440.68	453.14	434.67	496.62	506.62	1,076.06	445.56
1980	497.32	503.00	1,349.27	484.32	491.73	492.57	491.22	507.50	513.91	1,349.27	460.31
1981	444.32	468.61	1,605.09	399.56	429.80	460.85	405.40	472.80	478.88	1,605.09	379.81
1982	395.27	420.40	1,656.70	350.88	378.94	410.40	352.46	422.12	430.85	1,656.70	345.51
1983--											
1st qtr.	337.92	344.61	1,450.33	322.27	324.62	328.76	321.22	368.17	367.65	1,450.33	326.88
2d qtr.	342.94	351.02	1,282.24	328.06	335.91	345.70	327.73	357.58	357.[illegible]	1,282.24	329.54
3d qtr.	346.10	356.66	1,201.21	325.63	333.37	345.42	322.92	372.58	371.82	1,201.21	336.74
4th qtr.	349.48	356.93	1,064.65	333.48	340.63	346.56	335.62	365.30	368.19	1,064.65	324.65
1983 average	344.37	352.81	1,232.31	327.29	333.67	341.97	326.67	366.21	366.69	1,232.31	329.93
1984--											
1st qtr.	341.78	352.33	1,273.02	319.16	332.46	346.52	318.74	362.50	360.76	1,273.02	321.22
2d qtr.	346.32	355.82	1,305.24	323.28	336.52	348.84	324.97	363.79	363.72	1,305.24	316.39
3d qtr.											
4th qtr.											
1984 average											
					TO JAPAN						
1973	270.56	245.63	736.97	277.21	254.16	221.04	269.24	305.00	288.03	736.97	296.63
1974	288.27	[illegible]	1,009.12	283.36	273.34	264.41	276.74	313.31	295.48	1,009.12	297.32
1975	278.39	266.94	687.90	277.13	272.24	260.88	277.76	288.58	274.68	687.90	275.84
1976	288.34	284.59	729.17	283.74	281.72	274.48	284.86	299.97	296.69	729.17	281.15
1977	330.72	324.74	1,019.62	326.47	323.40	312.83	329.13	343.58	340.13	1,019.62	320.42
1978	360.30	366.21	997.76	345.20	347.49	347.38	347.55	383.71	387.82	997.76	338.30
1979	468.83	478.56	1,080.54	453.73	455.55	457.61	454.43	496.42	504.36	1,080.54	451.28
1980	507.98	504.92	1,349.27	502.15	504.11	493.35	511.36	514.71	516.98	1,349.27	472.01
1981	461.95	477.74	1,606.26	420.04	449.65	471.47	431.71	482.51	484.95	1,606.26	386.46
1982	412.12	428.70	1,657.12	370.75	394.85	417.00	375.91	435.13	438.75	1,657.12	357.02
1983--											
1st qtr.	358.19	361.88	1,450.33	343.01	346.50	348.73	344.98	377.05	374.01	1,450.33	336.18
2d qtr.	364.44	367.03	1,282.24	353.14	362.25	365.40	359.30	367.80	368.71	1,282.24	335.17
3d qtr.	369.05	371.93	1,201.21	349.79	362.04	369.99	354.32	378.41	373.81	1,201.21	339.47
4th qtr.	374.99	378.39	1,064.65	359.17	371.94	371.71	372.14	378.68R	383.62	1,064.65	328.09
1983 average	366.40	369.73	1,232.31	350.80	360.00	363.98	356.59	375.49	375.04	1,232.31	334.89
1984--											
1st qtr.	367.03	369.38	1,275.91	348.78	357.90	364.61	351.84	380.37	373.75	1,275.91	338.38
2d qtr.	364.78	366.92	1,312.71	344.28	358.16	362.72	353.78	372.73	370.03	1,312.71	313.48
3d qtr.											
4th qtr.											
1984 average											

Table 13--Average value of softwood logs exported from Washington and Oregon ports, by origin, species, and destination, 1973-84 (continued)

(In dollars per thousand board feet, Scribner scale)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
TO CANADA											
1973	132.94	130.26	--	134.14	132.94	130.26	134.14	--	--	-	--
1974	187.62	210.93	--	161.31	187.62	210.93	161.31	--	--	-	--
1975	142.09	174.89	--	128.88	142.09	174.89	128.88	--	--	-	--
1976	163.76	184.62	-	154.54	163.76	184.62	154.54	--	--	--	--
1977	225.82	226.00	--	225.56	225.82	226.00	225.56	--	--	-	--
1978	232.08	227.43	--	245.35	232.08	227.43	245.35	-	--	--	--
1979	299.41	314.72	-	292.78	299.41	314.72	292.18	--	--	--	--
1980	327.92	336.71	--	322.03	327.92	336.71	322.03	--	--	--	--
1981	347.60	441.33	--	308.51	347.60	441.33	308.51	--	--	--	--
1982	224.51	215.75	--	225.86	224.51	215.75	225.86	--	--	-	--
1983--											
1st qtr.	346.55	--	--	346.55	346.55	--	346.55	--	--	-	--
2d qtr.	243.55	137.46	-	259.64	243.55	137.46	259.64	--	--	-	--
3d qtr.	412.10	--	--	412.10	412.10	--	412.10	--	--	--	--
4th qtr.	122.32	--	--	122.32	122.32	--	122.32	--	--	--	--
1983 average	200.35	138.54	-	205.44	200.35	137.46	205.44	-	--	--	--
1984--											
1st qtr.	88.68	85.07	-	89.88	88.68	85.07	89.88	--	--	--	--
2d qtr.	310.49	329.35	-	302.92	310.49	329.35	302.92	--	--	--	--
3d qtr.											
4th qtr.											
1984 average											
TO SOUTH KOREA											
1973	181.54	228.47	--	173.34	178.83	225.89	172.12	231.52	238.47	--	221.40
1974	205.03	201.13	--	206.43	202.12	201.62	202.26	217.47	200.23	--	234.41
1975	186.74	192.74	--	185.46	187.93	181.10	189.82	185.39	214.61	--	180.98
1976	211.78	214.11	--	211.19	208.53	206.47	208.93	240.77	244.77	--	238.54
1977	239.13	226.92	--	240.68	228.75	228.82	240.18	241.53	177.52	--	243.54
1978	249.59	257.28	--	249.08	250.01	261.09	249.11	246.40	239.70	--	247.34
1979	326.82	343.23	--	325.33	324.79	341.93	323.26	352.05	357.61	--	351.48
1980	374.50	348.93	-	376.18	378.74	343.39	380.92	349.17	372.50	--	347.09
1981	321.18	368.81	--	317.38	324.46	376.41	320.53	292.45	324.29	--	288.76
1982	299.98	329.71	--	296.33	302.81	341.56	298.14	281.94	260.32	--	284.74
1983--											
1st qtr.	269.84	330.54	--	267.15	270.36	337.14	267.26	265.85	250.01	--	266.31
2d qtr.	284.75	276.64	--	285.85	284.80	276.99	286.22	284.04	357.48	--	281.60
3d qtr.	317.84	274.32	--	319.08	313.41	241.77	314.13	354.58	290.00	--	368.13
4th qtr.	310.38	265.82	--	312.56	310.68	261.18	312.33	306.85	273.93	--	315.89
1983 average	296.80	282.70	--	297.82	295.74	282.21	296.66	307.16	285.38	--	309.95
1984--											
1st qtr.	291.55	306.77	281.14	291.26	294.59	362.96	293.97	274.91	270.10	281.14	275.29
2d qtr.	295.80	280.75	--	296.17	293.44	260.48	294.05	314.16	319.94	--	313.71
3d qtr.											
4th qtr.											
1984 average											
TO MAINLAND CHINA											
1980	471.98	490.48	--	399.69	492.85	523.52	406.96	451.70	462.77	--	386.95
1981	401.39	427.68	--	344.94	396.06	426.47	339.51	420.18	431.15	--	377.57
1982	388.44	406.87	--	338.18	385.27	406.20	340.64	394.97	407.99	--	328.31
1983--											
1st qtr.	299.10	303.46	--	278.91	296.98	301.41	278.91	318.50	318.50	--	--
2d qtr.	304.65	313.54	--	279.48	303.18	315.87	279.48	309.02	309.02	--	--
3d qtr.	320.99	337.73	--	289.32	309.37	323.92	288.64	358.09	367.71	--	296.02
4th qtr.	321.22	328.42	--	303.00	316.16	323.78	302.71	333.67	336.44	--	305.84
1983 average	315.28	325.17	--	290.98	308.14	317.77	290.31	338.64	342.38	--	299.69
1984--											
1st qtr.	318.86	330.89	--	287.98	318.22	332.89	288.99	321.48	325.04	--	264.26
2d qtr.	325.25	332.88	--	301.18	323.68	333.62	291.21	329.82	330.69	--	327.35
3d qtr.											
4th qtr.											
1984 average											

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

Table 14--Softwood log exports from northern California ports, by species and destination, 1973-84[1]

(1,000 board feet, Scribner scale)

Year and quarter	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
TO ALL COUNTRIES				
1973	104,733	34,454	4,065	66,214
1974	77,735	35,146	8,823	33,766
1975	86,943	52,547	2,483	31,913
1976	109,812	73,924	2,508	33,380
1977	70,902	38,302	2,331	30,269
1978	72,650	49,024	2,880	20,746
1979	65,492	37,551	1,611	26,330
1980	31,672	7,287	653	23,732
1981	25,586	5,890	1,381	18,315
1982	19,507	12,809	6	6,892
1983--				
1st quarter	9,263	2,675	300	6,288
2d quarter	4,414	951	--	3,463
3d quarter	8,401	2	--	8,399
4th quarter	11,441	15	--	11,426
1983 total	33,519	3,643	300	29,576
1984--				
1st quarter	11,858	6,075	488	5,295
2d quarter	633	4	--	629
3d quarter				
4th quarter				
1984 total	11,858	6,075	488	5,295
TO JAPAN				
1973	94,520	29,261	4,065	61,194
1974	69,271	32,485	8,823	27,963
1975	78,813	48,156	2,483	28,142
1976	96,485	69,395	2,853	24,237
1977	57,815	37,765	2,331	17,719
1978	58,760	48,653	1,757	8,350
1979	57,938	37,411	1,611	18,916
1980	27,180	7,055	653	19,472
1981	20,708	1,024	1,381	18,303
1982	9,022	3,270	6	5,746
1983 -				
1st quarter	9,261	2,675	300	6,286
2d quarter	4,414	951	--	3,463
3d quarter	3,899	--	--	3,899
4th quarter	6,734	-	--	6,734
1983 total	24,308	3,626	300	20,382
1984--				
1st quarter	3,274	1,950	488	3,336
2d quarter	629	--	--	629
3d quarter				
4th quarter				
1984 total				
TO MAINLAND CHINA				
1982	9,292	9,282	--	10
1983--				
1st quarter	2	-	--	2
2d quarter	--	--	--	--
3d quarter	4,500	--	--	4,500
4th quarter	3,800	--	--	3,800
1983 total	8,302	--	--	8,302
1984--				
1st quarter	3,500	3,500	--	--
2d quarter	--	-	--	--
3d quarter				
4th quarter				
1984 total				

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Northern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

Table 15--Softwood log exports by State and port, Washington, Oregon, and northern California, 1973-84

(In million board feet, Scribner scale)

YEAR AND QUARTER	STATE OF WASHINGTON[1]									
	ABERDEEN	ANACORTES, BELLINGHAM	EVERETT	LONGVIEW	OLYMPIA	PORT ANGELES	TACOMA	NORTHEASTERN WASHINGTON	OTHER	TOTAL
1973	491.5	84.5	250.4	328.7	86.9	306.0	511.1	D	54.6	2,113.7
1974	396.2	49.2	217.7	300.2	61.5	273.5	383.0	-	48.4	1,729.7
1975	366.8	32.2	230.0	261.3	48.6	284.7	469.2	--	32.9	1,725.7
1976	502.1	30.5	277.2	397.4	7.5	324.5	623.7	D	28.5	2,191.4
1977	402.1	42.1	237.7	328.2	68.7	304.6	607.6	--	12.0	2,003.0
1978	512.2	41.1	321.8	325.8	87.1	387.2	559.7	--	7.0	2,241.0
1979	648.7	50.9	332.8	366.1	101.0	505.0	601.7	--	9.9	2,616.1
1980	498.2	38.0	287.3	387.0	80.2	295.1	497.1	.1	3.1	2,086.1
1981	414.3	16.7	208.4	215.9	47.3	168.0	446.2	.1	14.9	1531.8
1982	552.3	11.0	310.3	374.5	62.6	152.6	494.1	--	13.9	1,971.3
1983--										
1st quarter	154.0	.2	61.0	67.8	12.3	47.0	126.4	--	.2	468.9
2d quarter	151.5	--	65.4	85.4	12.4	46.9	135.6	0	.2	497.4
3d quarter	200.8	.9	94.7	83.3	10.3	55.3	152.8	--	.1	598.2
4th quarter	151.8	5.6	71.4	81.8	5.4	51.4	125.9	D	.1	493.4
1983 total	658.1	6.7	292.5	318.3	40.4	200.6	540.7	--	.6	2057.9
1984--										
1st quarter	151.6	7.7	72.9	85.8	23.2	62.2	131.0	D	1.3	535.7
2d quarter	196.5	5.8	79.9	106.3	23.8	68.3	112.8	.1	D	593.5
3d quarter										
4th quarter										
1984 total										

YEAR AND QUARTER	STATE OF OREGON[1]					NORTHERN CALIFORNIA[2]				
	ASTORIA	COOS BAY	PORTLAND	OTHER	TOTAL	EUREKA	SACRAMENTO	STOCKTON	OTHER	TOTAL
1973	147.1	155.5	159.8	21.3	483.7	79.6	16.2	8.7	.2	140.7
1974	159.0	128.1	139.8	24.8	451.7	67.5	9.8	3.8	.2	81.3
1975	245.7	134.1	137.5	44.5	561.8	66.6	19.9	0	1.4	87.9
1976	273.3	144.6	99.5	28.0	545.4	83.7	26.1	D	--	109.8
1977	210.2	120.1	207.0	15.4	552.7	39.2	25.5	D	6.3	71.0
1978	168.4	145.1	277.0	15.0	605.5	46.1	18.4	--	8.2	72.7
1979	150.1	128.2	322.0	17.2	617.5	43.0	6.0	D	16.5	65.6
1980	134.7	135.2	275.8	D	545.7	14.9	3.9	.5	12.3	31.6
1981	73.3	113.8	268.2	D	455.3	6.6	13.3	D	5.6	25.5
1982	93.3	191.1	309.5	2.3	596.2	16.0	.7	D	1.2	17.9
1983--										
1st quarter	17.1	38.6	52.9	D	108.6	3.0	6.3	D	D	9.3
2d quarter	15.4	31.5	65.6	D	112.5	4.4	D	0	--	4.4
3d quarter	17.2	37.8	108.0	1.1	164.1	5.8	2.6	D	--	8.4
4th quarter	19.3	45.6	83.4	0	148.3	3.9	7.4	0	.1	11.4
1983 total	69.0	153.5	309.9	1.1	533.5	17.1	16.3	0	.1	33.5
1984--										
1st quarter	11.2	54.2	51.0	D	116.4	8.9	3.0	0	--	11.9
2d quarter	23.0	67.3	73.3	3.3	166.93	D	.3	D	.3	.6
3d quarter										
4th quarter										
1984 total										

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

Note: Individual columns may not add to totals because of rounding.

[1]State totals as presented here for Washington and Oregon do not agree with those in table 11 because customs districts as used in table 11 do not correspond to State boundaries.

[2]Northern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

Table 16--Average value of softwood log exports by State and port, Washington, Oregon, and northern California, 1973-84

(In dollars per thousand board feet, Scribner scale)

YEAR AND QUARTER	STATE OF WASHINGTON[1]									
	ABERDEEN	ANACORTES, BELLINGHAM	EVERETT	LONGVIEW	OLYMPIA	PORT ANGELES	TACOMA	NORTHEASTERN WASHINGTON	OTHER	AVERAGE
1973	264.23	211.35	258.69	288.82	284.15	215.32	262.90	0	229.45	257.80
1974	266.16	261.07	257.85	292.13	282.38	240.79	274.24	--	262.10	268.56
1975	256.17	297.84	273.29	280.90	273.90	253.46	266.63	--	279.01	266.30
1976	269.90	293.96	287.08	302.53	302.53	261.25	277.21	0	252.97	277.26
1977	311.97	296.28	309.82	336.01	331.68	294.59	327.76	--	263.80	317.86
1978	332.92	295.77	334.87	379.57	347.93	319.97	340.91	--	344.67	339.68
1979	452.52	376.18	455.44	518.19	499.12	424.46	428.19	--	492.38	451.64
1980	490.53	414.44	473.47	506.59	510.63	472.08	523.11	280.95	538.84	495.76
1981	394.52	461.88	412.74	462.85	447.21	396.82	473.08	307.74	3.06	428.32
1982	354.51	374.42	366.86	420.02	358.61	362.47	429.08	--	372.14	388.57
1983--										
1st quarter	303.16	333.33	330.21	356.07	409.69	352.28	329.46	371.54	371.31	329.36
2d quarter	312.44	--	334.46	356.59	457.21	325.38	354.57	0	876.79	339.46
3d quarter	316.65	497.76	352.59	355.10	405.86	324.84	340.57	590.21	416.59	336.40
4th quarter	324.25	343.91	358.44	374.72	278.90	343.10	351.47	0	334.42	346.28
1983 average	314.28	364.25	345.30	361.03	405.78	336.07	344.01	442.46	623.79	337.90
1984--										
1st quarter	319.92	379.46	345.23	373.38	321.18	351.02	344.24	0	298.73	339.02
2d quarter	327.90	348.52	334.40	364.83	345.52	333.24	352.52	250.12	655.67	341.58
3d quarter										
4th quarter										
1984 average										

YEAR AND QUARTER	STATE OF OREGON[1]					NORTHERN CALIFORNIA[2]				
	ASTORIA	COOS BAY	PORTLAND	OTHER	AVERAGE	EUREKA	SACRAMENTO	STOCKTON	OTHER	AVERAGE
1973	321.16	348.95	269.64	257.16	316.88	219.99	226.77	296.78	363.54	227.72
1974	300.21	363.95	302.15	291.55	318.41	295.56	317.05	328.16	252.62	299.55
1975	236.89	349.97	316.25	271.48	286.03	256.07	368.11	0	452.10	284.62
1976	267.63	372.46	337.44	253.76	307.45	292.15	367.73	0	-	312.31
1977	338.29	409.01	328.22	318.00	349.32	333.34	337.06	0	338.45	335.14
1978	325.32	512.44	366.77	330.78	389.23	353.99	362.18	--	372.07	358.09
1979	461.34	592.98	455.51	381.59	483.38	336.29	393.19	0	447.84	369.65
1980	452.99	604.08	488.22	0	508.23	462.98	485.28	379.65	535.17	492.37
1981	340.14	635.05	446.55	0	477.76	537.93	492.22	0	422.02	488.61
1982	325.14	501.04	404.96	420.00	423.35	334.72	279.64	0	469.32	342.13
1983--										
1st quarter	296.53	434.13	357.26	0	375.04	444.42	378.55	0	0	396.64
2d quarter	280.88	392.41	356.59	0	357.45	251.83	0	0	--	254.78
3d quarter	321.86	427.56	375.45	320.00	381.45	305.82	424.66	0	553.00	342.70
4th quarter	309.29	393.86	353.46	0	360.10	320.06	344.67	0	866.02	340.36
1983 average	302.95	411.99	362.85	320.00	369.15	315.41	370.37	0	1,028.53	345.23
1984--										
1st quarter	294.17	361.57	360.14	0	354.46	434.29	517.85	0	375.00	454.99
2d quarter	305.14	383.58	365.89	289.36	363.12	0	341.85	0	462.34	402.76
3d quarter										
4th quarter										
1984 average										

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]State averages as presented here for Washington and Oregon do not agree with those in table 13 because customs districts as used in table 13 do not correspond to State boundaries.

[2]Northern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

Table 17--Volume and average value of softwood log exports from [illegible] ports by destination, 1973-84

(Volume in thousand board feet, [illegible]; value in dollars per thousand board feet)

YEAR AND QUARTER	VOLUME	[illegible]
	TO [illegible]	
1973	71,719	[illegible]
1974	34,949	240.82
1975	29,011	307.97
1976	26,197	224.59
1977	52,377	263.54
1978	68,025	320.45
1979	128,597	470.97
1980	160,523	532.56
1981	149,187	480.54
1982	241,123	478.49
1983--		
1st quarter	[illegible]	404.75
2d quarter	63,788	440.78
3d quarter	[illegible]	430.70
4th quarter	62,254	412.64
1983 total and average value	262,219	[illegible]
1984--		
1st quarter	[illegible]	386.93
2d quarter	55,176	421.55
3d quarter		
4th quarter		
1984 total and average value		
	TO JAPAN	
1973	71,705	248.24
1974	[illegible]	252.71
1975	24,311	352.29
1976	[illegible]	253.18
1977	46,897	278.99
1978	[illegible]	343.49
1979	120,753	475.21
1980	156,275	533.22
1981	141,209	491.44
1982	219,700	486.71
1983--		
1st quarter	28,469	421.84
2d quarter	56,182	462.00
3d quarter	79,058	463.03
4th quarter	47,996	442.65
1983 total and average value	211,705	[illegible]
1984--		
1st quarter	34,581	430.66
2d quarter	49,225	437.89
3d quarter		
4th quarter		
1984 total and average value		
	TO MAINLAND CHINA	
1981	3,205	377.57
1982	0	--
1983--		
1st quarter	0	--
2d quarter	0	--
3d quarter	7,275	293.94
4th quarter	8,316	314.98
1983 total and average value	15,591	305.16
1984--		
1st quarter	0	--
2d quarter	0	--
3d quarter		
4th quarter		
1984 total and average value		

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Data are compiled from Department of Commerce records at the end of each quarter.

Table 16--Volume and value of hardwood logs exported from ports in Washington, Oregon, Alaska, and northern California, 1973-84

(Volume in thousand board feet, Scribner scale; value in dollars)

Year and quarter	[illegible] CUSTOMS DISTRICT		[illegible] CUSTOMS DISTRICT		[illegible] CUSTOMS DISTRICT		SAN FRANCISCO CUSTOMS DISTRICT	
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
				TO ALL COUNTRIES				
1973	1,812	1,351,759	56	57,747	0	--	1,084	2,330,761
1974	633	1,121,192	45	95,342	0	--	560	1,515,476
1975	1,599	637,455	73	103,519	0	--	3,911	780,853
1976	3,750	1,646,972	236	136,188	0	--	659	1,239,777
1977	2,735	2,117,386	[illegible]	87,839	0	--	1,396	2,751,996
1978	2,362	2,190,449	75	91,486	11	19,250	1,772	4,088,466
1979	2,597	2,216,256	341	420,741	138	[illegible],716	1,272	3,049,981
1980	6,826	5,153,711	2,026	764,511	186	44,960	[illegible]	2,260,961
1981	[illegible]	3,173,191	439	470,373	[illegible]	--	683	1,422,547
1982	3,788	2,894,801	335	217,463	[illegible]	--	623	1,364,227
1983--								
1st quarter	1,926	1,000,110	[illegible]	60,676	[illegible]	--	32	73,503
2d quarter	719	[illegible]	7	9,100	0	--	[illegible]	16,787
3d quarter	477	422,808	222	73,327	0	--	166	126,392
4th quarter	1,320	720,183	111	27,750	0	-	23	11,625
1983 total	4,442	2,629,711	[illegible]	170,853	0	--	241	228,307
1984--								
1st quarter	728	[illegible]	102	[illegible]	[illegible]	--	94	[illegible]
2d quarter	3,303	1,745,830	[illegible]	414,494	31	[illegible],163	130	[illegible]
3d quarter								
4th quarter								
1984 total								
				TO JAPAN				
1973	993	1,164,704	34	56,842	[illegible]	--	1,015	2,250,213
1974	[illegible]	1,063,245	37	84,293	[illegible]	-	485	1,093,502
1975	1,210	562,583	14	9,039	[illegible]		3,803	636,796
1976	3,313	1,416,317	235	134,988	0	-	456	1,005,649
1977	1,444	1,179,616	17	33,347	[illegible]	--	1,063	2,300,667
1978	1,178	819,332	57	84,025	0		1,248	3,059,204
1979	1,824	1,153,644	[illegible]	359,119	74	188,389	1,059	2,339,089
1980	4,786	1,969,245	1,964	[illegible]	182	42,[illegible]	579	1,532,496
1981	2,037	2,162,473	229	264,161	[illegible]	[illegible]	310	742,998
[illegible]	1,465	1,212,079	35	[illegible]	[illegible]	-	[illegible]	911,992
1983-								
1st quarter	[illegible]	[illegible]	[illegible]	[illegible]	0	--	32	73,503
2d quarter	174	176,659	7	9,100	0	[illegible]	[illegible]	16,787
3d quarter	296	153,970	100	[illegible]	[illegible]	[illegible]	[illegible]	8,960
4th quarter	[illegible]	92,030	100	25,000	[illegible]	--	[illegible]	-
1983 total	1,256	[illegible]	[illegible]	81,616	[illegible]	--	[illegible]	99,250
1984--								
1st quarter	[illegible]	169,355	[illegible]	51,735	0		57	104,040
2d quarter	2,499	903,303	[illegible]	394,964	0	-	95	196,902
3d quarter								
4th quarter								
1984 total								
				TO MAINLAND CHINA				
1980	6	2,800	0	-	0	--	--	--
1981	0	--	0	--	[illegible]	[illegible]	[illegible]	--
1982	45	45,000	0	-	0	--	0	--
1983--								
1st quarter	0	-	0	--	[illegible]	--	0	--
2d quarter	0	--	0	-	0	--	0	--
3d quarter	0	--	100	22,500	0	--	0	--
4th quarter	0	--	0	--	0	--	0	--
1983 total	0	--	100	22,500	0	--	0	[illegible]
1984--								
1st quarter	0	--	0	--	0	--	0	--
2d quarter	0	-	0	[illegible]	0	--	0	--
3d quarter								
4th quarter								
1984 total								

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Data are compiled from Department of Commerce records at the end of each quarter. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Alaska Customs District is the State of Alaska. San Francisco Customs District includes Monterey and all ports north of Monterey, California.

Table 19--Log exports from southern California ports, by species, 1973-84

(In thousand board feet, Scribner scale)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	HARDWOODS
1973	445	214	5	226
1974	378	32	130	216
1975	288	11	224	53
1976	2,396	1,411	670	315
1977	1,360	169	411	780
1978	1,721	172	917	632
1979	2,117	290	359	1,468
1980	1,149	295	610	244
1981	738	88	186	464
1982	797	281	211	305
1983--				
1st quarter	20	0	0	20
2d quarter	93	0	22	71
3d quarter	330	0	0	330
4th quarter	231	0	9	222
1983 total	674	0	31	643
1984--				
1st quarter	497	4	0	493
2d quarter	347	0	97	250
3d quarter				
4th quarter				
1984 total				

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter. Revisions that may have been made after this time are not shown. Southern California consists of the San Diego and Los Angeles Customs Districts and includes all ports south of Monterey, California.

Table 20--Volume and average value of softwood log exports to Canada from the Montana Customs District, 1973-84[1/]

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

YEAR AND QUARTER	ALL SPECIES		DOUGLAS-FIR		OTHER SOFTWOODS	
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
1973	379	177.58	93	261.16	286	150.40
1974	925	178.24	19	149.05	906	178.86
1975	739	226.93	72	274.78	667	221.76
1976	571	228.43	103	254.08	468	222.78
1977	1,227	247.66	467	251.10	760	245.54
1978	901	226.05	136	367.43	765	200.91
1979	3,906	168.47	0	--	3,906	168.47
1980	699	239.88	36	303.53	663	236.42
1981	477	362.68	123	475.06	354	323.64
1982	418	285.81	16	203.81	402	289.07
1983--						
1st quarter	63	310.65	0	--	63	310.65
2d quarter	317	254.09	0	--	317	254.09
3d quarter	111	284.59	11	460.64	100	265.23
4th quarter	134	242.75	0	--	134	242.75
1983 total and average value	625	262.78	0	--	614	259.23
1984--						
1st quarter	322	260.77	0	--	322	260.77
2d quarter	107	249.79	0	--	107	249.79
3d quarter						
4th quarter						
1984 total and average value						

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Data are compiled from Department of Commerce records at the end of each quarter.

[1/]Montana Customs District includes all ports in Montana and Idaho.

Table 21--Log exports from British Columbia ports, by species and destination, 1973-84[1/]

(In thousand board feet, British Columbia log scale)

YEAR AND QUARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOODS
			TO ALL COUNTRIES				
1973	35,716	1,852	9,750	7,441	13,647	1,211	1,815
1974	148,801	11,790	31,528	67,843	27,355	4,973	5,312
1975	85,082	2,406	18,914	19,373	41,416	1,505	2,188
1976	116,193	5,390	39,069	21,901	41,959	3,346	4,528
1977	186,511	10,085	118,085	36,048	19,835	754	1,704
1978	128,853	8,592	24,467	45,143	49,767	530	354
1979	169,107	2,431	56,504	56,954	43,201	4,135	5,882
1980	231,784	8,907	106,193	49,590	36,756	12,155	18,183
1981	184,481	856	98,579	24,616	37,774	18,943	3,713
1982	252,892	48,192	75,731	38,005	40,446	37,087	13,431
1983--							
1st quarter	135,436	44,710	41,072	4,176	17,097	17,360	11,021
2d quarter	107,628	30,266	27,731	3,065	12,059	7,811	26,696
3d quarter	113,857	16,712	53,585	3,550	15,890	14,808	9,312
4th quarter	124,456	32,801	56,749	11,774	9,854	12,700	578
1983 total	481,377	124,489	179,137	22,565	54,900	52,679	47,607
1984--							
1st quarter	195,430	33,954	75,034	13,885	13,001	12,572	46,984
2d quarter	[2/]162,597	20,839	96,186	3,570	23,134	[2/]16,507	[2/]2,371
3d quarter							
4th quarter							
1984 total							
			TO JAPAN				
1973	29,239	1,293	8,058	6,205	13,284	399	0
1974	80,655	2,167	22,968	31,915	16,503	2,304	4,798
1975	61,728	1,460	10,477	7,696	39,470	1,253	1,372
1976	67,192	792	17,026	7,343	39,905	470	1,656
1977	109,301	5,106	65,092	23,413	15,489	201	0
1978	90,001	4,094	16,890	24,038	44,814	99	66
1979	120,297	1,894	49,281	27,597	35,883	3,636	2,056
1980	154,824	1,692	61,500	35,346	36,157	6,939	13,190
1981	131,321	698	71,645	17,427	31,541	10,010	0
1982	130,457	8,205	51,603	23,459	29,806	16,758	626
1983--							
1st quarter	72,481	15,996	35,674	4,346	11,558	4,907	0
2d quarter	40,003	10,139	10,968	3,062	9,547	6,258	29
3d quarter	57,843	10,011	29,757	3,275	10,718	4,082	0
4th quarter	70,884	19,120	27,242	9,637	8,174	6,469	242
1983 total	241,211	55,266	103,641	20,320	39,997	21,716	271
1984--							
1st quarter	82,920	21,667	30,097	12,520	9,846	8,756	34
2d quarter	[2/]90,805	16,676	37,418	3,366	20,285	[2/]13,049	[2/]11
3d quarter							
4th quarter							
1984 total							

Table 21--Log exports from British Columbia ports, by species and destination, 1973-84[1/] (continued)

(In thousand board feet, British Columbia log scale)

YEAR AND QUARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOODS
			TO UNITED STATES				
1973	6,471	559	1,692	1,236	363	812	1,809
1974	68,146	9,623	8,560	35,928	10,852	2,669	514
1975	23,354	946	7,717	11,677	1,946	252	816
1976	48,911	4,598	22,043	14,558	1,964	2,876	2,872
1977	74,442	4,979	50,817	12,043	4,346	553	1,704
1978	32,843	4,498	6,039	19,144	2,443	431	288
1979	48,810	537	7,223	29,357	7,368	499	3,826
1980	76,955	7,215	44,693	14,244	594	5,216	4,993
1981	50,324	158	26,934	7,189	4,340	8,879	2,824
1982	63,900	1,524	23,241	10,705	5,695	20,044	2,691
1983--							
1st quarter	20,371	2,790	5,398	370	2,443	7,562	1,808
2d quarter	23,402	1,441	16,763	0	2,512	1,553	1,133
3d quarter	42,673	2,672	23,828	275	5,172	10,726	0
4th quarter	26,059	4,407	13,451	316	1,650	5,808	427
1983 total	112,505	11,310	59,440	961	11,777	25,649	3,368
1984--							
1st quarter	19,704	2,532	14,301	81	255	713	1,822
2d quarter	[2/] 38,294	1,700	27,398	562	2,839	[2/] 3,486	[2/] 2,309
3d quarter							
4th quarter							
1984 total							
			TO MAINLAND CHINA				
1982	46,689	38,463	0	0	3,787	0	8,911
1983--							
1st quarter	43,124	25,924	0	0	3,096	4,891	9,213
2d quarter	44,220	18,686	0	0	0	0	25,534
3d quarter	4,029	4,029	0	0	0	0	0
4th quarter	18,981	9,274	0	0	0	395	9,312
1983 total	110,354	57,913	0	0	3,096	5,286	44,059
1984--							
1st quarter	85,499	9,755	25,710	0	2,900	3,075	44,059
2d quarter	[2/] 27,897	2,314	25,583	0	0	[2/] 0	[2/] 0
3d quarter							
4th quarter							
1984 total							

Source--Bureau of Economics and Statistics, Department of Industrial Development, Trade, and Commerce, Victoria, B.C., "Preliminary Statement of External Trade."

[1/] Figures do not include shipments of pulpwood logs.

[2/] Incomplete; does not include all "Other softwoods" or "Hardwoods."

Table 22--Volume and average value of softwood log imports of all species from Canada into Washington and Oregon, 1973-84

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

YEAR AND QUARTER	VOLUME	AVERAGE VALUE
1973	2,102	124.71
1974	31,625	248.69
1975	55,494	207.13
1976	44,438	122.62
1977	91,962	194.93
1978	41,307	271.29
1979	75,855	298.89
1980	51,828	233.08
1981	33,985	319.77
1982	59,492	313.27
1983--		
1st quarter	27,366	255.60
2d quarter	9,803	161.82
3d quarter	21,553	214.60
4th quarter	17,912	227.86
1983 total and average value	76,674	[illegible]
1984--		
1st quarter	14,150	190.01
2d quarter	18,670	103.79
3d quarter		
4th quarter		
1984 total and average value		

Source--U.S. Department of Commerce. Value is declared value at port of entry. Data are compiled from Department of Commerce records at the end of each quarter.

Table 23--Volume and average value of pulpwood imports from Canada into the Washington Customs District, 1973-84

YEAR AND QUARTER	CHIPPED PULPWOOD		ROUNDWOOD PULPWOOD	
	VOLUME	VALUE	VOLUME	VALUE
	Short tons	Dollars	Cords	Dollars
1973	1,065,124	11.19	16	97.06
1974	623,830	15.55	31,998	60.08
1975	493,761	23.36	11,517	42.90
1976	877,550	20.98	1,967	32.14
1977	1,056,102	18.59	16,674	91.19
1978	1,215,483	16.37	0	--
1979	1,039,458	17.19	0	--
1980	1,185,701	26.77	57,337	66.64
1981	1,160,507	32.33	23,084	130.11
1982	1,247,813	32.15	8,320	139.24
1983--				
1st quarter	337,359	26.69	0	--
2d quarter	371,580	23.22	0	--
3d quarter	394,400	23.86R	0	--
4th quarter	324,151	23.69	0	--
1983 total and average value	1,427,490	24.32	0	--
1984--				
1st quarter	567,891	21.95	0	--
2d quarter	418,399	22.29	0	--
3d quarter				
4th quarter				
1984 total and average value				

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

R = revised.

Table 24--Volume and average value of chips exported from the Washington, Oregon, San Francisco, and Alaska Customs Districts, 1973-84

(In short tons, ovendried basis; average value in dollars per short ton)

YEAR AND QUARTER	WASHINGTON CUSTOMS DISTRICT		OREGON CUSTOMS DISTRICT		SAN FRANCISCO CUSTOMS DISTRICT		ALASKA CUSTOMS DISTRICT	
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
1973	272,196	21.84	2,778,829	24.85	369,403	24.41	0	--
1974	390,370	28.62	3,177,465	26.50	242,017	30.69	34,828	28.99
1975	326,083	38.56	2,436,807	34.74	257,735	28.96	32,399	48.51
1976	457,801	33.39	2,881,577	39.90	366,678	34.76	107,652	37.89
1977	281,540	49.17	2,892,333	43.33	519,444	42.91	107,429	51.67
1978	299,140	46.16	2,650,423	42.98	412,107	40.82	31,827	37.20
1979	346,209	50.05	3,125,103	42.55	603,989	44.69	83,706	48.62
1980	268,103	79.53	2,849,927	88.44	728,459	85.81	151,328	75.57
1981	296,461	80.74	2,076,612	85.51	321,533	89.89	77,649	73.61
1982	328,374	79.27	1,914,439	83.31	196,292	83.36	74,164	68.98
1983--								
1st quarter	69,722	75.40	400,690	70.19	57,310	67.87	6,645	34.67
2d quarter	64,243	74.74	441,218	70.65	116,439	67.39	0	--
3d quarter	77,917	74.34	438,092	66.44	83,760	64.63	0	--
4th quarter	36,053	70.86	388,971	65.22	93,078	67.44	0	--
1983 total and average value	247,935	74.24	1,668,971	68.17	350,587	66.82	6,645	34.67
1984--								
1st quarter	58,862	77.03	392,085	64.65	62,575	64.09	11,609	28.53
2d quarter	45,002	70.40	441,888	66.57	61,553	72.90	0	--
3d quarter								
4th quarter								
1984 total and average value								

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Washington Customs District includes all ports in the State of Washington, except Longview and Vancouver. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. San Francisco Customs District includes all coastal and inland ports in the State of California from Monterey north. The Alaska Customs District is the State of Alaska.

Table 25--Softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/]

(In thousand board feet)

Year and quarter	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS
ALL COUNTRIES												
1973	[illegible]	532,321	169,927	97,383	324,740	143,666	104,851	76,223	474,891	388,655	65,076	21,160
1974	[illegible]	496,978	124,047	98,704	331,818	174,056	79,399	78,363	387,911	322,922	44,648	20,341
1975	616,883	415,152	125,529	[illegible]	263,754	151,681	52,064	60,009	353,129	263,471	73,465	16,193
1976	698,941	478,100	145,645	75,196	311,599	155,041	94,581	61,977	387,342	[illegible]	51,064	13,219
1977	[illegible]	[illegible]	[illegible]	50,971	[illegible]	123,783	92,364	40,556	292,356	248,826	33,115	10,415
1978	[illegible]	374,032	135,156	76,400	310,100	[illegible]	118,094	63,111	275,488	245,137	17,062	13,289
1979	839,[illegible]	427,063	280,067	[illegible]	413,673	98,685	211,030	103,858	426,322	328,378	69,031	28,907
1980	984,862	449,123	338,487	197,272	[illegible]	106,671	270,706	144,351	463,154	[illegible]	67,781	52,921
1981	933,739	[illegible]	268,024	214,640	467,886	139,070	173,000	155,816	465,853	312,005	95,024	58,824
1982	888,401	419,263	306,901	162,237	472,956	117,049	237,174	118,733	415,445	302,214	69,727	43,504
1983--												
1st quarter	249,498	[illegible]	72,467	52,486	136,719	32,870	[illegible]	47,348	112,779	91,675	15,966	5,138
2d quarter	299,636	156,898	80,312	62,426	161,445	49,765	64,356	47,324	138,191	107,133	15,956	15,102
3d quarter	225,602	108,196	65,651	[illegible]	123,617	32,142	49,362	42,113	101,985	76,054	16,289	9,642
4th quarter	[illegible]	123,340	76,979	[illegible]	130,896	37,517	53,073	40,306	116,423	85,823	23,906	6,694
1983 total	1,022,055	512,979	295,409	[illegible]	552,677	152,294	223,292	177,091	469,378	360,685	72,117	36,576
1984--												
1st quarter	[illegible]	126,283	62,634	44,334	104,766	32,797	37,203	34,766	130,485	95,486	25,431	9,568
2d quarter	260,690	149,240	67,462	43,988	113,156	36,444	43,491	33,221	147,534	112,796	23,971	10,767
3d quarter												
4th quarter												
1984 total												
TO JAPAN												
1973	153,537	40,402	99,707	13,428	89,514	19,247	64,966	5,301	64,023	[illegible]	34,741	8,127
1974	205,888	102,858	[illegible]	25,057	103,531	44,424	47,616	11,491	102,357	58,434	30,357	13,566
1975	208,160	96,307	96,610	15,243	89,489	40,991	[illegible]	3,139	118,671	55,316	51,251	[illegible]
1976	186,628	68,927	[illegible]	9,817	[illegible]	39,430	80,891	7,232	[illegible]	29,497	26,993	2,585
1977	145,386	40,945	93,719	10,722	108,468	20,845	80,161	7,462	36,918	20,100	13,558	3,260
1978	163,233	36,429	108,610	[illegible]	141,963	25,609	103,056	13,289	21,270	10,820	5,554	4,896
1979	355,840	[illegible]	227,702	52,571	258,444	45,549	177,239	35,656	97,396	30,018	50,463	16,915
1980	362,458	53,084	[illegible]	59,645	269,406	26,428	199,237	43,741	93,052	26,656	50,492	15,904
1981	312,232	[illegible]	206,837	49,916	189,547	25,966	128,307	35,274	122,685	29,513	78,530	14,642
1982	414,221	94,161	[illegible]	59,216	283,500	41,819	201,775	39,906	130,721	52,342	59,069	19,310
1983--												
1st quarter	111,529	28,259	62,186	21,084	77,376	10,277	47,871	19,228	34,153	17,982	14,315	1,856
2d quarter	116,414	29,497	67,962	18,955	86,712	16,280	54,250	16,182	29,702	13,217	13,712	2,773
3d quarter	97,726	21,793	56,121	19,812	[illegible]	11,321	41,471	15,090	29,844	10,472	14,650	4,722
4th quarter	122,373	34,320	68,255	19,798	83,780	19,924	47,560	16,296	38,593	14,396	20,695	3,502
1983 total	448,042	113,869	254,524	79,649	315,750	57,802	191,152	66,796	132,292	56,067	63,372	12,853
1984--												
1st quarter	106,363	[illegible]	56,640	21,600	64,431	15,971	32,261	16,199	41,932	12,152	24,379	5,401
2d quarter	107,744	27,685	59,310	20,749	67,406	13,227	38,884	15,295	40,338	14,458	20,426	5,454
3d quarter												
4th quarter												
1984 total												

Table 25--Softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/] (continued)

(In thousand board feet)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS
					TO CANADA							
1973	88,695	49,381	9,340	29,974	88,695	49,381	9,340	29,974	0	0	0	0
1974	126,547	67,856	5,952	52,739	124,097	65,406	5,952	52,739	2,795	2,763	0	32
1975	113,213	61,099	4,299	47,815	112,783	61,099	3,869	47,815	0	0	0	0
1976	101,633	50,327	6,737	44,569	101,633	50,327	6,737	44,569	0	0	0	0
1977	76,251	45,842	3,695	26,714	76,251	45,842	3,695	26,714	0	0	0	0
1978	117,969	69,852	9,241	38,876	117,930	69,813	9,241	38,876	39	39	0	0
1979	113,977	38,917	18,870	56,190	113,977	38,917	18,870	56,190	0	0	0	0
1980	159,658	54,876	26,325	78,457	159,658	54,876	26,325	78,457	0	0	0	0
1981	213,594	91,861	20,598	101,135	213,594	91,861	20,598	101,135	0	0	0	0
1982	120,189	50,773	11,127	58,289	120,189	50,773	11,127	58,289	0	0	0	0
1983--												
1st quarter	42,952	17,999	2,467	22,486	42,952	17,999	2,467	22,486	0	0	0	0
2d quarter	55,975	26,494	2,681	26,800	55,975	26,494	2,681	26,800	0	0	0	0
3d quarter	39,020	14,792	2,498	21,730	39,020	14,792	2,498	21,730	0	0	0	0
4th quarter	32,816	12,848	2,087	17,881	32,816	12,848	2,087	17,881	0	0	0	0
1983 total	170,763	72,133	9,733	88,897	170,763	72,133	9,733	88,897	0	0	0	0
1984--												
1st quarter	26,862	10,934	2,255	13,673	26,862	10,934	2,255	13,673	0	0	0	0
2d quarter	30,118	14,797	2,164	13,157	30,118	14,797	2,164	13,157	0	0	0	0
3d quarter												
4th quarter												
1984 total												
					TO MAINLAND CHINA							
1981	9,041	8,829	20	192	335	123	20	192	8,706	8,706	0	0
1982	2,248	2,248	0	0	0	0	0	0	2,248	2,248	0	0
1983--												
1st quarter	0	0	0	0	0	0	0	0	0	0	0	0
2d quarter	1,637	1,637	0	0	0	0	0	0	1,637	1,637	0	0
3d quarter	1,619	1,619	0	0	0	0	0	0	1,619	1,619	0	0
4th quarter	4,146	4,146	0	0	0	0	0	0	4,146	4,146	0	0
1983 total	7,402	7,402	0	0	0	0	0	0	7,402	7,402	0	0
1984--												
1st quarter	0	0	0	0	0	0	0	0	0	0	0	0
2d quarter	10,665	10,665	0	0	0	0	0	0	10,665	10,665	0	0
3d quarter												
4th quarter												
1984 total												

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Includes lumber classified as railroad crossties and not specified by species.

Table 26--Average value of softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/]

(In dollars per thousand board feet)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS
					TO ALL COUNTRIES							
1973	269.96	[illegible]	174.98	215.55	211.88	262.75	166.56	178.33	309.68	327.79	188.54	349.63
1974	[illegible]	310.19	211.88	241.28	242.67	267.93	[illegible]	224.26	318.98	332.98	223.32	306.82
1975	263.14	283.95	206.11	243.68	220.36	228.52	191.93	224.40	295.09	315.86	216.16	315.10
1976	318.61	350.52	220.15	306.38	260.23	280.33	217.02	275.88	365.57	384.21	225.95	449.34
1977	340.02	371.97	240.66	350.99	278.19	291.17	242.18	320.55	394.31	412.17	236.43	469.55
1978	362.29	[illegible]	266.51	329.76	290.19	309.81	266.70	294.06	443.46	452.34	265.25	499.35
1979	518.36	639.18	377.08	427.85	401.51	471.86	371.57	395.90	631.60	699.47	393.73	542.65
1980	436.14	560.96	319.83	351.55	324.62	361.19	310.48	324.13	561.77	623.19	357.18	426.36
1981	387.06	436.65	[illegible]	338.11	332.62	360.84	322.81	318.31	441.75	470.44	379.24	390.55
1982	366.89	424.78	291.66	359.59	303.23	304.87	291.53	313.02	442.78	471.22	292.09	486.70
1983--												
1st quarter	[illegible]	386.89	312.11	314.22	305.05	397.05	313.84	300.12	404.23	419.10	305.98	444.15
2d quarter	328.44	345.86	303.90	316.22	289.95	283.36	309.54	270.24	373.41	374.90	281.06	460.30
3d quarter	353.98	401.49	312.83	306.87	307.22	312.80	325.80	281.19	410.66	438.98	273.51	419.03
4th quarter	357.28	414.03	297.84	305.68	305.62	301.81	322.39	287.07	415.36	463.09	243.33	417.71
1983 average	346.29	[illegible]	306.32	311.15	301.26	297.07	317.26	284.66	399.31	420.63	272.89	478.61
1984--												
1st quarter	[illegible]	414.93	282.74	328.88	311.78	332.84	[illegible]	301.17	405.06	443.12	[illegible]	429.59
2d quarter	350.79	389.30	281.20	391.14	306.87	324.96	294.38	303.36	384.89	[illegible]	257.29	399.41
3d quarter												
4th quarter												
1984 average												
					TO JAPAN							
1973	204.26	198.89	191.64	314.19	194.09	186.88	190.83	260.23	218.49	209.81	193.15	349.39
1974	221.96	228.74	210.08	231.13	217.74	226.46	206.72	229.73	226.23	230.47	215.35	232.32
1975	188.89	155.39	202.62	313.48	188.14	167.70	182.71	533.56	189.45	146.27	220.23	256.41
1976	220.76	204.96	218.97	315.40	223.82	232.17	209.63	337.05	214.14	168.59	246.94	391.56
1977	243.68	249.38	240.35	250.06	246.50	266.64	240.37	256.19	235.40	231.45	240.28	239.31
1978	299.96	393.04	[illegible]	314.88	293.87	396.05	263.56	332.17	340.64	385.92	316.02	268.52
1979	418.26	491.38	376.08	495.86	407.98	488.99	372.67	480.04	445.53	495.01	388.04	529.21
1980	353.02	391.89	332.12	405.92	346.43	391.76	326.23	411.03	372.09	392.01	355.34	391.88
1981	357.26	436.99	321.23	417.97	357.88	428.98	322.83	433.00	356.32	444.04	318.60	381.77
1982	312.11	315.93	297.27	371.19	286.72	281.02	275.85	347.61	[illegible]	343.82	370.45	420.45
1983--												
1st quarter	309.30	[illegible]	313.18	330.11	300.64	268.24	295.68	330.32	328.91	294.94	371.70	327.95
2d quarter	297.69	279.61	304.03	303.07	297.66	262.05	307.48	300.56	297.77	301.25	290.39	317.72
3d quarter	308.88	317.40	309.86	296.72	310.67	289.44	323.22	292.13	304.78	347.63	272.03	311.40
4th quarter	312.45	298.47	288.88	417.95	334.43	289.79	318.48	435.54	264.74	310.48	220.84	336.11
1983 average	307.05	293.92	303.49	337.21	310.94	278.08	310.68	340.15	297.76	310.26	281.80	328.89
1984--												
1st quarter	291.81	310.90	276.82	306.26	299.13	295.52	296.34	308.27	280.56	331.12	251.00	300.22
2d quarter	306.59	320.67	276.81	372.94	311.33	318.53	286.06	369.37	298.67	322.63	259.20	382.96
3d quarter												
4th quarter												
1984 average												

Table 26--Average value of softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/] (continued)

(In dollars per thousand board feet)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS
						TO CANADA						
1973	182.24	192.12	120.04	185.34	182.24	192.12	120.04	185.34	--	--	--	--
1974	205.78	223.84	196.55	183.58	202.89	219.18	196.55	183.40	312.23	312.23	--	300.03
1975	189.59	200.09	199.95	175.20	189.59	200.09	199.95	175.20	--	--	--	--
1976	243.28	257.29	245.57	227.11	243.28	257.29	245.57	227.11	--	--	--	--
1977	237.20	205.68	272.32	286.43	237.20	205.68	272.32	286.43	--	--	--	--
1978	186.31	152.21	240.99	234.59	186.20	151.99	240.99	234.59	536.67	536.67	--	--
1979	333.39	384.39	331.18	298.58	333.28	384.39	331.18	298.58	--	--	--	--
1980	263.66	285.72	252.59	251.96	263.66	285.72	252.59	251.96	--	--	--	--
1981	281.69	298.64	301.46	241.23	271.69	298.64	301.46	241.23	--	--	--	--
1982	263.51	268.80	317.76	248.85	263.51	268.80	317.73	248.85	--	--	--	--
1983--												
1st quarter	263.27	278.36	325.74	244.33	263.27	278.36	325.74	244.33	--	--	--	--
2d quarter	259.43	277.71	332.15	234.08	259.43	277.71	332.15	234.08	--	--	--	--
3d quarter	259.42	281.40	350.39	233.99	259.42	281.40	350.39	233.99	--	--	--	--
4th quarter	256.56	273.08	348.60	222.93	256.56	273.08	348.60	222.93	--	--	--	--
1983 average	258.69	277.81	338.73	234.41	258.69	277.81	338.73	234.41	--	--	--	--
1984--												
1st quarter	306.24	302.89	344.07	302.68	306.24	302.89	344.07	302.68	--	--	--	--
2d quarter	268.31	282.82	347.89	238.90	268.31	282.82	347.89	238.90	--	--	--	--
3d quarter												
4th quarter												
1984 average												
						TO MAINLAND CHINA						
1981	285.72	286.02	741.60	105.42	270.55	450.62	741.60	105.42	284.30	284.30	--	--
1982	257.07	257.07	--	--	--	--	--	--	257.07	257.07	--	--
1983--												
1st quarter	--	--	--	-	-	--	--	--	--	--	--	--
2d quarter	314.97	314.97	-	-	--	--	--	--	314.97	314.97	--	--
3d quarter	299.97	299.97	-	-	--	--	--	--	299.97	299.97	--	--
4th quarter	332.71	332.71	--	-	--	-	--	--	332.71	332.71	--	--
1983 average	321.62	321.62	--	--	--	-	-	--	321.62	321.62	--	--
1984--												
1st quarter	--	--	--	--	--	--	--	--	--	--	--	--
2d quarter	254.00	254.00	--	--	--	--	--	--	254.00	254.00	--	--
3d quarter												
4th quarter												
1984 average												

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1/] Includes lumber classified as railroad crossties and not specified by species.

Table 27--Softwood lumber exports from northern California ports, by species and destination, 1973-84[1]

(In thousand board feet)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS
		TO ALL COUNTRIES		
1973	73,842	30,746	2,530	40,566
1974	35,314	17,350	815	17,149
1975	27,628	13,388	636	13,604
1976	40,585	14,430	462	25,693
1977	44,438	18,951	1,137	24,350
1978	32,919	12,931	684	19,304
1979	30,832	10,539	1,498	18,795
1980	34,603	10,531	3,777	20,295
1981	47,315	7,841	12,037	27,437
1982	52,717	13,855	7,536	31,326
1983--				
1st quarter	11,357	4,060	1,748	5,549
2d quarter	12,600	5,643	2,584	4,373
3d quarter	12,315	5,727	1,201	5,387
4th quarter	7,008	3,153	86	3,769
1983 total	43,280	18,583	5,619	19,078
1984--				
1st quarter	5,456	2,329	239	2,888
2d quarter	6,710	3,043	298	3,369
3d quarter				
4th quarter				
1984 total				
		TO JAPAN		
1973	4,963	328	2,359	2,276
1974	3,208	317	12	2,879
1975	4,303	337	--	3,966
1976	5,724	168	396	5,160
1977	7,766	1,354	--	6,412
1978	6,763	107	200	6,456
1979	8,854	0	700	8,154
1980	17,384	1,160	3,256	12,968
1981	29,437	2,608	11,834	14,995
1982	38,213	7,285	6,581	24,347
1983--				
1st quarter	7,519	1,381	1,748	4,390
2d quarter	6,585	578	2,460	3,547
3d quarter	5,389	274	1,134	3,981
4th quarter	2,664	0	72	2,592
1983 total	22,157	2,233	5,414	14,510
1984--				
1st quarter	2,160	223	185	1,752
2d quarter	2,682	122	121	2,439
3d quarter				
4th quarter				
1984 total				
		TO MAINLAND CHINA		
1981	93	0	0	93
1982	22	17	0	5
1983--				
1st quarter	0	0	0	0
2d quarter	0	0	0	0
3d quarter	0	0	0	0
4th quarter	0	0	0	0
1983 total	0	0	0	0
1984--				
1st quarter	0	0	0	0
2d quarter	0	0	0	0
3d quarter				
4th quarter				
1984 total				

Source--U.S. Department of Commerce.

[1]Northern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

Table 28--Softwood lumber exports from southern California ports, by species and destination, 1973-84[1]

(In thousand board feet)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS
	TO ALL COUNTRIES		
1973	52,608	19,599	33,009
1974	46,514	18,684	27,830
1975	56,759	23,596	33,163
1976	61,256	23,078	38,178
1977	72,588	26,895	45,693
1978	74,347	27,661	46,686
1979	81,372	20,388	60,984
1980	95,641	24,830	70,811
1981	109,451	18,809	90,642
1982	71,212	7,491	63,721
1983--			
1st quarter	6,717	494	6,223
2d quarter	8,472	355	8,117
3d quarter	10,051	686	9,365
4th quarter	10,487	1,068	9,419
1983 total	35,727	2,603	33,124
1984--			
1st quarter	11,121	389	10,732
2d quarter	23,079	1,194	21,885
3d quarter			
4th quarter			
1984 total			
	TO JAPAN		
1973	264	--	264
1974	64	--	64
1975	119	--	119
1976	377	--	377
1977	172	73	99
1978	471	--	471
1979	739	--	739
1980	2,330	237	2,093
1981	1,477	360	1,117
1982	290	12	278
1983--			
1st quarter	0	0	0
2d quarter	2,155	0	2,155
3d quarter	178	0	178
4th quarter	366	22	344
1983 total	2,699	22	2,677
1984--			
1st quarter	59	0	59
2d quarter	268	0	268
3d quarter			
4th quarter			
1984 total			

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Southern California consists of the San Diego and Los Angeles Customs Districts and includes all ports south of Monterey, California.

Table 29--Softwood lumber exports from Alaska ports, by species and destination, 1973-84

(In thousand board feet)

YEAR AND QUARTER	TOTAL	WESTERN HEMLOCK	SITKA SPRUCE	CEDAR	OTHER SOFTWOODS
		TO ALL COUNTRIES			
1973	404,849	210,555	194,143	12	139
1974	362,432	250,144	154,525	2,641	122
1975	313,307	179,398	132,556	1,353	0
1976	290,011	134,387	148,526	1,298	5,800
1977	250,044	122,544	121,350	5,579	571
1978	237,795	126,218	111,435	53	89
1979	278,462	172,005	103,844	479	2,134
1980	256,716	158,682	96,607	105	1,322
1981	195,981	104,974	91,007	0	0
1982	171,966	75,500	94,805	0	1,661
1983--					
1st quarter	42,858	20,389	21,854	0	615
2d quarter	23,333	10,727	11,545	0	1,061
3d quarter	36,314	17,962	18,352	0	0
4th quarter	34,155	21,713	12,442	0	0
1983 total	136,660	70,791	64,193	0	1,676
1984--					
1st quarter	24,995	14,414	10,581	0	0
2d quarter	23,046	13,082	9,964	0	0
3d quarter					
4th quarter					
1984 total					
		TO JAPAN			
1973	403,938	210,536	193,390	12	0
1974	361,691	204,845	154,205	2,641	0
1975	312,976	179,122	132,501	1,353	0
1976	289,197	134,274	148,221	902	5,800
1977	245,445	122,471	121,083	1,391	500
1978	236,615	125,355	111,207	53	0
1979	273,615	170,149	101,408	435	1,623
1980	251,369	156,654	94,610	105	0
1981	161,794	82,753	79,041	0	0
1982	155,826	71,192	83,966	0	668
1983--					
1st quarter	34,269	18,795	14,937	0	537
2d quarter	22,230	10,626	10,543	0	1,061
3d quarter	29,008	13,116	15,892	0	0
4th quarter	34,155	21,713	12,442	0	0
1983 total	119,662	64,250	53,814	0	1,598
1984--					
1st quarter	24,994	14,414	10,580	0	0
2d quarter	23,046	13,082	9,964	0	0
3d quarter					
4th quarter					
1984 total					
		TO MAINLAND CHINA			
1981	27,149	18,428	8,721	0	0
1982	13,153	3,307	9,846	0	0
1983--					
1st quarter	5,976	1,582	4,394	0	0
2d quarter	0	0	0	0	0
3d quarter	6,278	4,846	1,432	0	0
4th quarter	0	0	0	0	0
1983 total	12,254	6,428	5,826	0	0
1984--					
1st quarter	0	0	0	0	0
2d quarter	0	0	0	0	
3d quarter					
4th quarter					
1984 total					

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

Table 30--Softwood lumber exports to Canada from the Montana Customs District, 1973-84[1]

(In thousand board feet)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS
1973	47,727	30,526	3,334	13,867
1974	29,146	9,618	3,602	15,926
1975	50,226	12,745	4,516	32,965
1976	56,451	19,050	3,521	33,880
1977	46,488	12,660	3,463	30,365
1978	44,612	12,691	2,276	29,645
1979	81,671	22,067	1,632	57,972
1980	57,556	14,030	1,803	41,723
1981	82,933	18,196	1,308	63,429
1982	47,418	8,595	690	38,133
1983--				
1st quarter	16,216	3,428	230	12,558
2d quarter	21,160	4,397	185	16,578
3d quarter	18,434	2,736	277	15,421
4th quarter	13,412	1,973	160	11,279
1983 total	69,222	12,534	852	55,836
1984--				
1st quarter	10,988	1,783	31	9,174
2d quarter	12,274	2,165	197	9,912
3d quarter				
4th quarter				
1984 total				

Source--U.S. Department of Commerce.

[1]Montana Customs District includes all ports in Montana and Idaho.

Table 31--Lumber exports from British Columbia ports, by species and destination, 1973-84

(In thousand board feet)

YEAR AND QUARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOO
			TO ALL COUNTRIES				
1973	4,169,812	566,535	2,032,594	456,522	766,830	344,401	2,930
1974	3,938,940	527,706	1,699,277	406,419	914,787	387,043	3,708
1975	3,001,410	356,371	1,113,665	295,218	825,527	409,507	1,122
1976	4,670,033	542,197	1,967,446	467,829	1,191,429	499,853	1,279
1977	5,860,807	683,614	2,364,028	533,267	2,269,876	8,796	1,226
1978	5,876,119	679,566	2,492,764	570,796	2,116,258	15,674	1,061
1979	5,755,532	679,694	2,313,186	646,701	1,983,829	129,161	2,961
1980	5,160,800	498,425	2,098,672	988,347	1,872,234	99,624	3,498
1981	4,421,519	420,466	1,805,988	604,608	1,495,892	93,086	1,479
1982	4,242,899	339,932	1,803,999	635,865	208,218	1,244,341	10,544
1983--							
1st quarter	1,173,746	80,455	503,998	161,250	62,562	363,111	2,370
2d quarter	1,231,102	92,469	556,169	183,459	42,115	355,453	1,437
3d quarter	1,170,095	83,730	558,274	169,082	44,826	313,650	533
4th quarter	1,222,476	82,212	520,193	193,551	44,272	381,476	772
1983 total	4,797,419	338,866	2,138,634	707,342	193,775	2/1,413,690	5,112
1984--							
1st quarter	1,270,372	95,998	531,661	204,012	48,185	386,778	3,738
2d quarter	2/1,458,007	113,174	282,875	205,117	48,375	2/197,183	2/10,283
3d quarter							
4th quarter							
1984 total							
			TO JAPAN				
1973	617,449	12,987	441,852	88,946	71,531	1,849	284
1974	500,785	15,335	349,560	83,749	49,116	2,490	535
1975	407,674	12,870	301,336	60,490	30,488	2,405	85
1976	633,863	13,727	476,927	79,934	61,743	1,521	11
1977	705,823	18,530	530,567	90,447	65,943	85	251
1978	779,135	23,799	545,983	116,368	92,940	0	45
1979	1,014,481	44,021	677,425	158,121	133,358	546	1,010
1980	1,084,426	55,800	701,579	136,130	185,379	4,158	1,380
1981	867,636	34,239	577,901	129,256	125,324	717	199
1982	1,048,371	44,391	713,625	119,900	66,709	103,607	139
1983--							
1st quarter	284,327	10,068	189,631	32,141	19,963	32,499	25
2d quarter	241,695	7,198	157,455	31,260	11,849	33,914	19
3d quarter	177,966	6,039	107,190	22,699	18,636	23,374	28
4th quarter	194,964	10,257	104,036	39,001	11,746	29,778	46
1983 total	898,952	33,562	558,412	125,101	62,194	119,565	118
1984--							
1st quarter	231,901	5,705	139,376	35,023	18,419	33,239	139
2d quarter	2/526,773	8,287	149,843	35,246	20,407	2/32,921	2/69
3d quarter							
4th quarter							
1984 total							

ble 31--Lumber exports from British Columbia ports, by species and destination, 1973-84 (continued)

n thousand board feet)

AR AND ARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOODS
			TO UNITED STATES[1]				
73	2,601,556	347,653	1,143,329	240,978	544,634	322,316	2,646
74	2,287,461	302,112	761,924	207,138	659,751	353,487	3,049
75	2,026,343	238,331	542,256	166,949	684,404	393,391	1,012
76	2,965,011	322,793	978,784	267,831	938,185	456,237	1,181
77	4,107,653	529,808	1,340,920	333,604	1,894,371	7,988	962
78	4,078,666	501,841	1,443,548	365,062	1,751,741	15,496	978
79	3,528,648	462,658	1,125,807	382,991	1,429,014	126,536	1,642
80	2,590,889	283,482	775,428	355,821	1,079,387	94,683	2,088
81	2,337,958	228,856	803,019	394,800	813,733	96,305	1,245
82	2,017,725	157,776	637,513	430,634	111,314	679,412	1,076
83--							
st quarter	596,902	42,067	197,343	107,140	39,938	209,966	448
d quarter	716,670	50,047	282,102	125,052	27,625	231,261	583
d quarter	716,678	54,010	279,588	125,998	24,490	232,182	410
th quarter	565,452	41,694	222,722	38,173	29,642	232,625	596
983 total	2,595,702	187,818	981,755	396,363	121,695	906,034	2,037
84--							
st quarter	710,697	56,129	223,607	144,187	21,935	264,241	598
d quarter	[2] 802,002	49,529	290,762	144,949	29,670	[2] 284,114	[2] 2,978
d quarter							
th quarter							
984 total							
			TO MAINLAND CHINA				
82	43,206	0	28,877	0	624	4,514	9,191
83--							
st quarter	16,970	0	10,445	0	0	4,663	1,862
d quarter	27,465	0	23,994	0	0	3,471	0
d quarter	35,319	3,308	27,331	0	0	4,680	0
th quarter	55,289	2,966	49,230	0	0	3,093	0
983 total	135,043	6,274	111,000	0	0	15,907	1,862
84--							
st quater	50,651	3,063	45,155	0	0	571	1,862
d quarter	[2] 44,950	0	37,286	0	0	[2] 0	[2] 7,664
d quarter							
th quarter							
984 total							

ource--Bureau of Economics and Statistics, Department of Industrial Development, Trade, and Commerce, Victoria, .., "Preliminary Statement of External Trade."

[1] igures do not include shipments of railroad crossties.

[2] ncomplete; does not include all "Other softwoods" or " Hardwoods."

Table 32--Plywood exports from Washington and Oregon ports, by origin and destination, 1973-84

(In thousand square feet)

YEAR AND QUARTER	FROM BOTH CUSTOMS DISTRICTS		FROM WASHINGTON CUSTOMS DISTRICT		FROM OREGON CUSTOMS DISTRICT	
	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE
			TO ALL COUNTRIES			
1973	284,806	6,337	45,493	5,546	239,313	791
1974	284,487	6,590	131,317	5,604	153,170	986
1975	407,117	10,493	93,951	10,360	313,166	133
1976	532,576	24,229	34,020	23,846	498,556	383
1977	233,762	17,673	20,603	17,447	213,159	226
1978	[illegible]	12,160	23,284	8,871	218,821	3,289
1979	330,018	9,962	27,132	9,644	302,886	318
1980	279,003	9,718	20,747	8,806	258,256	912
1981	327,967	18,645	65,729	17,333	262,238	1,312
1982	221,609	9,435	36,268	9,346	185,341	89
1983--						
1st quarter	109,950	4,445	10,297	4,311	99,653	134
2d quarter	100,036	4,884	11,347	4,804	88,689	80
3d quarter	40,582	4,576	7,599	4,569	32,983	7
4th quarter	71,818	2,636	8,765	2,636	63,053	0
1983 total	322,386	16,541	38,008	16,320	284,378	221
1984--						
1st quarter	77,171	3,211	5,987	3,066	71,184	145
2d quarter	26,917	2,625	6,256	2,532	20,661	93
3d quarter						
4th quarter						
1984 total						
			TO JAPAN			
1973	8,139	247	1,625	0	6,514	247
1974	3,311	188	1,203	11	2,108	177
1975	2,141	14	414	0	1,727	14
1976	2,361	61	498	61	1,863	0
1977	1,914	162	122	74	1,792	88
1978	2,821	18	167	18	2,654	0
1979	6,040	108	931	108	5,109	0
1980	8,301	978	4,158	978	4,143	0
1981	5,056	13	2,162	12	2,894	1
1982	6,720	19	3,152	19	3,568	0
1983--						
1st quarter	1,264	0	910	0	354	0
2d quarter	1,047	13	765	0	282	13
3d quarter	1,583	3	1,108	0	475	3
4th quarter	1,786	0	1,190	0	596	0
1983 total	5,680	16	3,973	0	1,707	16
1984--						
1st quarter	1,295	0	267	0	1,028	0
2d quarter	1,727	0	619	0	1,108	0
3d quarter						
4th quarter						
1984 total						
			TO MAINLAND CHINA			
1982	0	1	0	1	0	0
1983--						
1st quarter	0	0	0	0	0	0
2d quarter	0	0	0	0	0	0
3d quarter	0	0	0	0	0	0
4th quarter	0	0	0	0	0	0
1983 total	0	0	0	0	0	0
1984--						
1st quarter	0	0	0	0	0	0
2d quarter	0	0	0	0	0	0
3d quarter						
4th quarter						
1984 total						

Source--U.S. Department of Commerce. Oregon Customs District includes all Oregon ports plus Longview and Vancouver, Washington. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

Table 33--Plywood exports from California, 1973-84[1/]

(In thousand square feet)

YEAR AND QUARTER	TOTAL	NORTHERN CALIFORNIA		SOUTHERN CALIFORNIA	
		SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE
1973	16,562	8,186	698	4,358	3,320
1974	18,177	4,985	305	7,978	4,909
1975	19,619	7,874	542	6,311	4,892
1976	19,696	10,085	92	4,681	5,111
1977	9,198	5,148	646	1,818	1,586
1978	6,036	2,833	899	964	1,340
1979	5,934	1,638	871	1,946	1,479
1980	9,054	1,414	849	3,546	3,245
1981	9,349	2,424	487	2,830	3,608
1982	7,464	3,026	1,364	1,557	1,517
1983--					
1st quarter	1,356	524	58	195	579
2d quarter	2,567	1,302	497	207	561
3d quarter	[2/]2,315	933	259	[2/]572	551
4th quarter	1,890	683	160	356	691
1983 total	8,128	3,442	974	1,330	2,382
1984--					
1st quarter	2,549	751	162	269	1,367
2d quarter	2,169	871	42	299	957
3d quarter					
4th quarter					
1984 total					

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter. Revisions which may have been made after this time are not shown.

[1/]Northern California is the San Francisco Customs District and includes all coastal and inland ports from Monterey north. Southern California consists of the San Diego and Los Angeles Customs Districts and includes all ports south of Monterey.

[2/]Of this amount, 11,000 square feet were exported to mainland China.

Table 34--Douglas-fir Peeler log prices, western Washington and northwestern Oregon, 1973-83

(In dollars per thousand board feet, Scribner scale)

LOG GRADE AND YEAR	WATER AND INLAND SALES	EXPORT SALES	ALL SALES
No. 1 Peeler:			
1973	239.40	651.50	582.10
1974	296.80	592.60	536.40
1975	317.50	545.30	488.30
1976	361.90	628.20	590.90
1977	416.30	628.40	558.90
1978	438.70	876.46	763.40
1979	576.70	1,460.50	1,076.90
1980	678.30	1,050.70	883.90
1981	736.40	902.70	797.60
1982	675.40	649.30	673.10
1983	617.90	578.80	617.60
No. 2 Peeler:			
1973	211.10	514.80	396.80
1974	251.90	448.60	370.20
1975	271.10	409.80	334.00
1976	301.20	450.70	401.40
1977	362.40	474.40	408.50
1978	389.60	762.10	555.10
1979	498.90	1,229.00	728.20
1980	562.70	946.40	678.60
1981	594.20	785.60	621.50
1982	561.30	710.80	563.80
1983	514.40	499.50	514.30
No. 3 Peeler:			
1973	185.10	406.20	270.70
1974	201.00	341.50	255.60
1975	224.50	305.90	243.10
1976	263.00	363.00	306.50
1977	298.30	346.70	310.30
1978	323.20	484.80	362.50
1979	411.90	728.60	480.50
1980	455.00	679.20	510.50
1981	470.20	547.50	486.20
1982	431.50	529.30	432.40
1983	392.60	452.20	393.80
Special Mill:			
1973	175.20	338.90	276.50
1974	196.00	282.20	255.10
1975	211.70	260.60	235.30
1976	226.60	283.50	261.60
1977	249.70	305.80	285.80
1978	274.70	363.10	324.90
1979	392.40	534.10	501.90
1980	391.60	512.80	485.30
1981	377.40	465.60	416.50
1982	304.10	379.70	319.00
1983	289.60	328.80	289.60
Average:			
1973	186.00	427.20	320.40
1974	208.90	360.10	299.30
1975	228.60	342.40	274.40
1976	268.70	438.70	377.70
1977	299.40	384.50	322.20
1978	333.50	561.10	446.40
1979	433.10	759.10	571.30
1980	493.80	702.80	584.40
1981	532.40	651.40	563.90
1982	460.70	464.40	460.90
1983	426.00	462.10	426.50

Source--Pacific Northwest Forest and Range Experiment Station compilation of regional log values based on composite log sales analyses of Industrial Forestry Association, Portland, Oregon. These prices may reflect costs of towing, sorting, bundling, or other handling, depending on the place of sale in each transaction.

Table 35--Douglas-fir Sawmill log prices, western Washington and northwestern Oregon, 1973-83

(In dollars per thousand board feet, Scribner scale)

LOG GRADE AND YEAR	WATER AND INLAND SALES	EXPORT SALES	ALL SALES
No. 1 Sawmill:			
1973	188.40	326.80	226.70
1974	205.50	308.00	227.10
1975	233.70	275.80	241.60
1976	235.20	284.00	262.60
1977	293.10	296.10	293.80
1978	282.60	521.30	402.80
1979	376.20	887.60	658.10
1980	376.50	650.20	497.80
1981	395.90	815.30	413.20
1982	365.40	--	365.40
1983	325.90	467.00	327.00
No. 2 Sawmill:			
1973	159.10	301.10	207.00
1974	184.30	250.20	209.70
1975	185.50	232.90	197.60
1976	207.70	264.00	231.30
1977	238.60	276.80	258.00
1978	261.30	318.70	286.00
1979	322.20	489.70	406.90
1980	343.10	438.10	387.30
1981	315.50	428.20	329.40
1982	250.30	361.30	271.00
1983	253.90	304.80	254.90
No. 3 Sawmill:			
1973	125.10	218.40	138.60
1974	138.20	236.70	148.10
1975	139.20	203.20	146.10
1976	160.60	221.30	179.40
1977	188.60	230.30	203.60
1978	210.60	263.70	228.20
1979	253.20	397.10	294.40
1980	270.50	362.60	299.80
1981	271.20	413.40	279.50
1982	202.70	308.90	243.50
1983	213.90	294.00	255.90
No. 4 Sawmill:			
1973	119.20	106.30	118.30
1974	138.60	70.10	137.60
1975	125.10	117.90	125.10
1976	119.70	150.70	121.40
1977	150.80	151.90	150.80
1978	161.30	176.10	162.00
1979	230.00	208.50	229.80
1980	226.70	374.60	271.50
1981	238.80	314.60	241.30
1982	156.30	309.20	230.40
1983	146.80	272.80	147.60
Mixed grade:			
1973	126.40	276.60	156.80
1974	136.40	240.80	153.70
1975	138.10	207.40	155.50
1976	157.40	228.60	171.00
1977	229.10	258.70	236.70
1978	252.40	328.40	296.90
1979	318.30	434.80	383.10
1980	326.90	403.70	383.90
1981	266.80	379.30	339.60
1982	264.40	359.80	337.30
1983	246.10	324.20	289.60
Ungraded:			
1973	132.00	300.50	136.10
1974	213.30	266.40	214.00
1975	148.60	176.10	149.90
1976	202.30	149.80	198.50
1977	257.00	238.20	252.20
1978	257.40	377.80	280.20
1979	332.30	471.70	387.80
1980	356.40	504.80	396.40
1981	438.70	519.00	473.50
1982	319.10	329.20	323.70
1983	323.20	306.00	311.20
Average:			
1973	137.30	284.00	172.30
1974	159.10	247.20	180.50
1975	154.70	217.40	168.70
1976	180.40	250.40	202.90
1977	227.20	265.30	242.80
1978	250.00	321.60	284.60
1979	311.50	451.60	382.20
1980	331.10	415.10	379.80
1981	295.20	392.20	331.40
1982	250.60	352.80	308.80
1983	243.90	318.20	277.30

Source--Pacific Northwest Forest and Range Experiment Station compilation of regional log values based on composite log sales analyses of Industrial Forestry Association, Portland, Oregon. These prices may reflect costs of towing, sorting, bundling, or other handling, depending on the place of sale in each transaction.

Table 36–Western hemlock log prices, western Washington and northwestern Oregon, 1973–83

(In dollars per thousand board feet, Scribner scale)

LOG GRADE AND YEAR	WATER AND INLAND SALES	EXPORT SALES	ALL SALES
Peeler:			
1973	167.80	422.80	410.80
1974	215.30	358.70	348.60
1975	215.00	331.90	328.90
1976	222.00	378.40	368.00
1977	269.30	388.10	384.50
1978	232.80	415.40	404.30
1979	434.40	582.20	578.20
1980	556.80	650.60	644.80
1981	435.80	566.90	564.30
1982	321.80	515.10	452.70
1983	340.50	525.90	442.40
Special Peeler:			
1973	144.50	326.90	313.10
1974	180.70	271.80	263.60
1975	175.80	244.50	240.80
1976	180.60	287.80	281.10
1977	218.60	293.00	289.40
1978	221.60	321.30	305.00
1979	334.10	465.10	460.80
1980	397.30	491.30	481.30
1981	303.56	382.50	375.20
1982	275.90	409.80	336.40
1983	275.10	386.30	296.20
No. 1:			
1973	149.60	379.40	349.20
1974	194.30	322.30	307.30
1975	175.10	291.60	281.20
1976	191.70	338.30	320.40
1977	264.60	350.70	342.80
1978	233.70	382.80	567.00
1979	302.90	534.40	522.30
1980	391.50	571.90	553.80
1981	322.30	473.70	455.20
1982	298.30	453.30	409.70
1983	311.00	444.00	362.30
No. 2:			
1973	119.00	287.40	238.30
1974	154.60	26.70	215.90
1975	149.60	212.80	198.40
1976	151.30	254.70	232.00
1977	182.60	272.10	252.30
1978	194.80	305.60	264.40
1979	250.10	437.80	395.60
1980	280.10	426.80	376.90
1981	262.80	367.20	303.30
1982	213.10	330.20	221.00
1983	220.90	285.10	224.30
No. 3:			
1973	107.70	253.40	187.90
1974	126.30	206.90	160.00
1975	120.10	181.30	149.90
1976	123.00	213.30	167.30
1977	159.40	230.10	202.40
1978	187.10	273.90	224.40
1979	217.90	359.60	290.20
1980	239.30	340.30	287.20
1981	213.40	334.10	235.50
1982	168.20	254.30	196.80
1983	194.10	257.40	219.40
No. 4:			
1973	92.20	172.60	101.00
1974	98.00	72.30	98.00
1975	93.20	149.80	97.40
1976	103.50	118.90	104.30
1977	125.10	133.80	126.10
1978	165.40	200.70	166.50
1979	236.50	217.90	235.80
1980	225.40	438.90	264.10
1981	192.70	234.20	204.90
1982	128.50	236.30	148.40
1983	196.40	225.40	198.00
Mixed grade:			
1973	104.20	218.10	137.60
1974	135.60	194.80	171.20
1975	131.10	135.90	153.20
1976	142.60	191.10	175.30
1977	161.20	227.30	206.50
1978	173.60	248.10	223.30
1979	210.40	353.30	324.70
1980	274.00	386.50	359.80
1981	206.30	306.20	268.20
1982	194.90	310.50	280.00
1983	183.80	291.40	241.60
Ungraded:			
1973	118.10	232.10	119.20
1974	144.10	194.20	147.90
1975	132.00	149.60	134.40
1976	149.90	201.70	151.80
1977	213.10	222.70	213.10
1978	207.60	214.40	208.10
1979	231.70	334.20	233.20
1980	297.00	391.00	310.90
1981	316.90	271.80	316.40
1982	269.00	265.00	368.50
1983	192.20	--	192.20
Average:			
1973	112.90	286.00	225.70
1974	142.10	240.30	208.70
1975	134.00	206.10	183.00
1976	145.90	241.40	213.60
1977	172.30	258.40	234.60
1978	182.90	282.10	250.60
1979	225.60	388.50	355.80
1980	284.80	418.90	376.50
1981	239.00	327.60	287.10
1982	209.70	310.80	273.80
1983	189.80	290.40	239.60

Source–Pacific Northwest Forest and Range Experiment Station compilation of regional log values based on composite log sales analyses of Industrial Forestry Association, Portland, Oregon. These prices may reflect costs of towing, sorting, bundling, or other handling, depending on the place of sale in each transaction.

ble 37--Noble fir log prices, western Washington and northwestern Oregon, 1973-83

n dollars per thousand board feet, Scribner scale)

G GRADE D YEAR	WATER AND INLAND SALES	EXPORT SALES	ALL SALES
eler:			
1973	160.20	931.90	901.80
1974	180.20	792.80	785.80
1975	202.90	554.10	537.00
1976	200.90	799.60	797.60
1977	271.70	715.80	696.20
1978	271.30	879.50	874.10
1979	332.90	1,493.40	1,415.40
1980	361.50	1,337.60	1,269.70
1981	569.50	795.50	713.80
1982	359.00	465.00	361.20
1983	360.10	--	360.10
ecial Mill:			
1973	140.90	549.90	488.00
1974	171.10	374.80	365.80
1975	175.20	266.80	246.90
1976	183.10	381.30	375.60
1977	212.60	356.40	345.60
1978	247.30	538.90	528.80
1979	303.60	893.90	747.50
1980	312.60	694.70	611.40
1981	281.00	510.40	397.50
1982	282.10	--	282.10
1983	292.90	--	292.90
. 1:			
1973	143.30	818.60	751.60
1974	170.80	688.30	659.10
1975	188.70	447.30	423.40
1976	183.60	633.10	629.00
1977	242.60	606.20	573.80
1978	245.60	759.40	740.00
1979	318.10	1,255.50	1,208.70
1980	307.30	989.80	829.50
1981	442.60	680.90	498.70
1982	319.10	--	319.10
1983	315.00	--	315.00
2:			
1973	132.60	343.20	256.80
1974	148.50	298.80	266.70
1975	156.60	247.30	223.10
1976	161.80	314.90	300.00
1977	181.00	291.80	275.70
1978	221.50	361.20	338.90
1979	216.40	685.10	596.80
1980	283.10	497.10	389.80
1981	307.50	455.80	332.30
1982	235.50	--	235.50
1983	235.20	307.00	235.20
c 3:			
1973	115.80	235.40	180.60
1974	117.70	200.60	152.20
1975	118.60	192.60	160.40
1976	137.00	241.30	218.20
1977	161.60	229.30	217.70
1978	184.90	262.40	239.20
1979	235.90	400.90	309.60
1980	294.50	354.90	306.90
1981	258.20	257.70	258.20
1982	185.80	--	185.80
1983	192.10	284.00	192.30

LOG GRADE AND YEAR	WATER AND INLAND SALES	EXPORT SALES	ALL SALES
No. 4:			
1973	97.10	111.20	99.90
1974	99.50	--	99.50
1975	113.80	--	113.80
1976	125.60	158.00	126.90
1977	137.40	146.90	141.60
1978	208.00	246.00	221.00
1979	204.00	141.00	191.40
1980	229.00	--	229.00
1981	207.30	--	207.30
1982	193.00	--	193.00
1983	199.90	--	199.90
Mixed grade:			
1973	113.10	239.20	135.20
1974	153.40	572.60	457.80
1975	158.00	205.50	166.60
1976	164.00	202.70	168.40
1977	189.70	211.20	192.80
1978	218.80	511.70	282.30
1979	265.60	1,203.50	376.70
1980	274.90	295.40	308.30
1981	176.60	295.70	180.20
1982.	203.90	316.10	232.40
1983	211.60	414.20	272.00
Ungraded:			
1973	172.50	--	172.50
1974	140.50	--	140.50
1975	156.60	114.00	153.70
1976	180.50	--	180.50
1977	196.50	--	196.50
1978	113.10	--	113.10
1979	230.50	--	230.50
1980	395.50	--	395.50
1981	--	--	--
1982	--	--	--
1983	197.00	--	197.00
Average:			
1973	128.20	623.20	465.10
1974	147.70	540.10	481.10
1975	160.00	362.10	313.40
1976	161.60	503.20	441.60
1977	196.60	453.70	409.60
1978	217.40	569.30	482.00
1979	255.90	937.50	708.80
1980	285.80	781.30	543.00
1981	283.00	577.10	338.40
1982	252.70	364.80	255.70
1983	235.20	413.40	248.60

ce--Pacific Northwest Forest and Range Experiment Station compilation of regional log values
d on composite log sales analyses of Industrial Forestry Association, Portland, Oregon. These
es may reflect costs of towing, sorting, bundling, or other handling, depending on the place of
in each transaction.

Table 38--White fir log prices, western Washington and northwestern Oregon, 1973-83

(In dollars per thousand board feet, Scribner scale)

LOG GRADE AND YEAR	WATER AND INLAND SALES	EXPORT SALES	ALL SALES
Peeler:			
1973	156.40	411.40	398.60
1974	230.80	360.10	351.30
1975	209.70	341.70	333.60
1976	255.60	386.00	379.20
1977	275.20	395.20	387.50
1978	263.80	439.20	432.20
1979	446.70	605.50	602.10
1980	637.70	671.90	670.80
1981	425.10	578.10	576.30
1982	377.50	530.80	511.70
1983	602.70	482.00	520.40
Special Mill:			
1973	141.90	324.80	314.40
1974	188.70	273.10	267.00
1975	169.70	259.30	249.60
1976	210.10	300.63	294.00
1977	218.90	294.70	289.60
1978	235.70	345.60	343.40
1979	374.10	496.30	494.20
1980	407.40	513.00	509.50
1981	281.00	402.80	396.90
1982	275.60	416.20	355.20
1983	304.20	374.20	330.40
No. 1:			
1973	142.60	357.70	338.90
1974	202.90	320.50	309.10
1975	182.90	300.70	286.90
1976	214.80	344.60	333.70
1977	247.50	353.90	343.90
1978	239.10	391.80	384.50
1979	325.80	552.50	548.80
1980	502.40	587.90	585.40
1981	304.40	485.90	451.70
1982	300.80	461.90	427.20
1983	482.60	428.70	450.80
No. 2:			
1973	129.20	280.00	255.50
1974	158.20	238.30	222.40
1975	151.30	229.40	214.10
1976	168.40	264.50	253.40
1977	181.20	265.10	256.10
1978	212.10	329.60	320.30
1979	270.80	465.90	446.70
1980	277.10	445.40	425.50
1981	248.90	370.10	318.50
1982	216.30	315.30	227.50
1983	231.50	287.00	241.40
No. 3:			
1973	106.20	239.60	207.70
1974	125.30	193.60	161.60
1975	120.00	189.50	172.00
1976	136.60	232.30	215.90
1977	159.10	234.70	223.60
1978	191.90	282.10	272.80
1979	239.20	393.60	348.70
1980	255.30	350.70	302.20
1981	233.40	292.70	251.40
1982	171.50	256.40	194.70
1983	244.60	257.30	246.80
No. 4:			
1973	92.00	132.80	99.10
1974	103.90	--	103.90
1975	106.40	--	106.40
1976	122.80	159.20	124.20
1977	135.10	138.40	136.40
1978	160.40	192.60	169.70
1979	204.60	230.70	206.10
1980	215.20	246.50	216.70
1981	176.10	237.30	180.00
1982	151.20	--	151.20
1983	182.90	284.70	184.90
Mixed grade:			
1973	95.20	229.10	173.40
1974	126.80	205.90	160.40
1975	121.70	165.70	151.20
1976	156.30	209.30	196.50
1977	173.80	229.60	214.90
1978	179.30	247.50	230.10
1979	249.40	348.50	321.90
1980	271.10	363.10	343.60
1981	177.70	308.80	275.40
1982	184.20	336.80	304.30
1983	229.10	335.70	308.60
Ungraded:			
1973	122.30	285.20	122.70
1974	145.20	--	145.20
1975	150.70	172.70	152.30
1976	162.60	219.20	152.40
1977	278.00	194.80	277.80
1978	207.60	213.30	208.30
1979	214.10	--	214.10
1980	293.70	323.20	293.70
1981	311.20	270.70	305.70
1982	192.50	--	192.50
1983	225.00	259.50	229.10
Average:			
1973	112.00	299.10	256.00
1974	138.10	260.90	221.50
1975	139.80	225.90	208.20
1976	166.70	273.30	256.00
1977	198.30	271.40	258.90
1978	151.80	319.20	290.60
1979	238.80	459.90	411.80
1980	286.90	469.30	431.30
1981	219.70	365.80	324.60
1982	201.20	342.80	294.20
1983	242.40	335.20	304.30

Source--Pacific Northwest Forest and Range Experiment Station compilation of regional log values based on composite log sales analyses of Industrial Forestry Association, Portland, Oregon. These prices may reflect costs of towing, sorting, bundling, or other handling, depending on the place of sale in each transaction.

Table 39--Sitka spruce log prices, western Washington and northwestern Oregon, 1973-83

(In dollars per thousand board feet, Scribner scale)

LOG GRADE AND YEAR	WATER AND INLAND SALES	EXPORT SALES	ALL SALES
Select:			
1973	480.80	1,072.00	1,046.20
1974	706.60	678.50	679.20
1975	448.80	551.60	548.40
1976	529.80	668.60	662.40
1977	416.70	761.60	727.40
1978	632.40	890.60	872.60
1979	674.20	1,502.60	1,488.50
1980	1,822.30	1,299.00	1,361.10
1981	986.20	1,149.20	1,099.50
1982	--	978.90	978.90
1983	--	985.40	985.40
Special Mill:			
1973	388.60	532.70	530.00
1974	287.80	396.40	387.50
1975	203.50	302.60	292.50
1976	318.20	398.20	393.80
1977	299.20	423.20	416.70
1978	385.80	490.60	476.30
1979	413.30	948.10	923.00
1980	1,162.10	830.60	877.20
1981	548.90	685.00	668.00
1982	292.30	500.60	485.70
1983	428.70	--	428.70
No. 1:			
1973	324.50	935.80	906.70
1974	267.80	599.00	564.00
1975	281.50	434.50	425.70
1976	360.20	562.40	551.80
1977	336.80	629.10	590.70
1978	464.90	738.60	705.20
1979	465.60	1,288.50	1,269.30
1980	1,227.00	1,143.50	1,155.50
1981	353.10	831.60	611.10
1982	--	769.80	769.80
1983	--	243.50	243.50
No. 2:			
1973	146.80	403.60	327.30
1974	169.40	315.30	244.80
1975	170.60	238.00	222.80
1976	182.20	255.20	245.50
1977	207.30	295.90	287.20
1978	249.90	315.40	285.70
1979	248.00	567.80	469.10
1980	367.80	596.30	539.20
1981	273.70	464.30	283.40
1982	211.40	360.80	240.10
1983	182.90	348.70	286.50
No. 3:			
1973	97.60	261.80	138.60
1974	128.50	251.10	149.10
1975	142.10	189.50	151.00
1976	147.70	208.60	174.40
1977	169.40	238.60	201.30
1978	182.20	141.10	179.00
1979	227.50	378.60	246.70
1980	192.80	394.70	228.60
1981	182.50	757.30	183.90
1982	175.70	214.00	176.00
1983	148.90	243.30	173.20
No. 4:			
1973	98.20	--	98.20
1974	128.20	--	128.20
1975	113.90	--	113.90
1976	88.00	--	88.00
1977	104.00	--	104.00
1978	100.00	--	100.00
1979	150.90	205.00	155.80
1980	231.90	--	231.90
1981	147.50	--	147.50
1982	--	--	--
1983	154.10	--	154.10
Mixed grade:			
1973	154.80	355.00	230.70
1974	166.10	264.40	211.10
1975	163.80	207.60	182.60
1976	159.70	243.40	210.30
1977	173.70	322.20	228.80
1978	191.20	402.00	324.70
1979	145.60	676.30	587.80
1980	378.40	560.90	531.60
1981	199.80	493.80	412.40
1982	165.00	366.80	348.60
1983	205.20	312.50	245.70
Ungraded:			
1973	115.10	117.10	115.10
1974	159.50	202.50	161.50
1975	116.40	100.60	109.70
1976	144.10	249.10	151.50
1977	210.40	--	210.40
1978	235.60	924.40	326.50
1979	319.40	138.30	318.70
1980	360.50	--	360.50
1981	290.10	--	290.10
1982	221.70	--	221.70
1983	98.20	--	98.20
Average:			
1973	152.00	529.50	349.70
1974	168.00	346.80	259.10
1975	162.70	268.60	217.40
1976	170.80	379.40	318.90
1977	192.80	424.60	362.80
1978	226.90	537.20	423.90
1979	215.20	834.10	711.10
1980	478.20	732.60	665.30
1981	258.00	543.30	384.70
1982	182.70	419.40	386.00
1983	203.00	322.60	247.70

urce--Pacific Northwest Forest and Range Experiment Station compilation of regional log values sed on composite log sales analyses of Industrial Forestry Association, Portland, Oregon. These ices may reflect costs of towing, sorting, bundling, or other handling, depending on the place sale in each transaction.

Table 40--Western redcedar log prices, western Washington and northwestern Oregon, 1973-83

(In dollars per thousand board feet, Scribner scale)

LOG GRADE AND YEAR	WATER AND INLAND SALES	EXPORT SALES	ALL SALES
No. 1:			
1973	241.60	471.50	296.60
1974	241.30	456.40	307.70
1975	249.30	368.30	289.50
1976	332.70	485.30	389.90
1977	410.40	597.10	469.10
1978	488.00	727.10	603.60
1979	525.60	1,199.10	865.60
1980	466.40	957.30	691.60
1981	443.90	811.40	493.70
1982	412.80	772.80	489.50
1983	436.10	977.80	541.70
No. 2:			
1973	201.70	399.40	239.50
1974	183.60	351.30	225.70
1975	198.50	255.10	203.40
1976	286.60	375.10	300.40
1977	345.60	446.20	358.70
1978	410.40	574.10	446.70
1979	424.10	917.30	545.90
1980	364.40	778.20	444.50
1981	356.30	561.50	372.70
1982	318.70	602.60	343.00
1983	337.50	718.40	355.40
No. 3:			
1973	137.50	257.40	159.80
1974	139.70	189.80	146.80
1975	139.50	145.40	140.00
1976	184.60	201.20	186.30
1977	235.40	234.20	235.30
1978	280.00	353.70	285.60
1979	337.30	555.10	348.70
1980	278.40	513.50	290.50
1981	272.50	344.30	272.90
1982	261.90	365.80	263.70
1983	291.10	390.90	295.60
No. 4:			
1973	95.30	103.50	96.00
1974	111.60	78.20	111.30
1975	99.60	104.00	99.60
1976	127.20	102.80	127.10
1977	194.40	186.50	193.80
1978	216.10	246.00	216.80
1979	272.10	386.70	278.70
1980	216.60	--	216.60
1981	213.80	--	213.80
1982	204.00	--	204.00
1983	265.80	242.30	217.00
Mixed grade:			
1973	172.30	230.40	129.70
1974	121.50	196.50	130.30
1975	131.60	186.80	133.60
1976	181.80	283.90	194.10
1977	236.90	347.10	257.70
1978	291.00	356.40	302.20
1979	354.50	526.10	398.50
1980	287.40	427.90	311.90
1981	354.50	417.80	360.60
1982	257.90	377.80	283.80
1983	317.60	410.80	329.60
Ungraded:			
1973	128.50	84.70	128.30
1974	131.30	137.00	131.50
1975	127.10	119.10	126.10
1976	160.40	178.50	162.40
1977	326.10	247.40	312.50
1978	291.10	231.50	291.00
1979	349.20	317.60	349.00
1980	357.60	--	357.60
1981	242.80	--	242.80
1982	258.30	--	258.30
1983	270.20	264.00	270.20
Average:			
1973	172.30	334.10	202.00
1974	156.30	316.90	186.30
1975	166.50	271.90	175.90
1976	243.20	372.60	264.70
1977	301.10	418.70	320.80
1978	341.40	546.70	391.10
1979	390.60	834.90	503.50
1980	321.00	657.80	380.20
1981	336.30	495.80	347.80
1982	272.40	388.00	293.70
1983	315.20	440.00	328.00

Source--Pacific Northwest Forest and Range Experiment Station compilation of regional log values based on composite log sales analyses of Industrial Forestry Association, Portland, Oregon. These prices may reflect costs of towing, sorting, bundling, or other handling, depending on the place of sale in each transaction.

ble 41--Western white pine log prices, western Washington and northwestern Oregon, 1973-83

n dollars per thousand board feet, Scribner scale)

G GRADE YEAR	WATER AND INLAND SALES	EXPORT SALES	ALL SALES
ler:			
1973	190.90	566.00	480.30
1974	272.80	512.10	356.80
1975	193.80	399.40	294.10
1976	214.30	642.10	539.20
1977	234.60	501.80	425.80
1978	228.70	599.50	435.70
1979	329.40	708.70	671.10
1980	338.90	818.50	750.00
1981	344.20	441.00	360.30
1982	384.40	--	384.40
1983	371.60	--	371.60
cial Mill:			
1973	161.90	371.60	320.00
1974	201.00	369.90	249.70
1975	178.60	263.10	196.90
1976	154.60	309.00	228.40
1977	161.60	346.30	262.30
1978	183.40	369.90	259.20
1979	245.60	471.90	407.40
1980	198.40	661.70	545.00
1981	249.60	575.00	268.80
1982	296.60	--	296.60
1983	310.80	--	310.80
1 Sawmill:			
1973	150.60	446.10	344.80
1974	223.50	444.00	272.80
1975	166.30	310.30	200.60
1976	164.60	419.30	280.00
1977	179.60	420.60	297.60
1978	196.80	473.70	294.70
1979	297.90	599.10	492.40
1980	389.70	835.70	721.10
1981	322.60	563.00	344.40
1982	331.90	--	331.90
1983	358.20	--	358.20
2 Sawmill:			
1973	104.70	260.10	177.80
1974	148.60	284.10	170.70
1975	139.00	228.90	149.80
1976	141.30	249.00	173.70
1977	148.80	280.00	194.30
1978	170.60	307.00	198.60
1979	242.80	433.30	315.70
1980	296.60	563.30	419.80
1981	278.20	291.40	278.50
1982	246.70	--	246.70
1983	259.40	247.90	259.30
3 Sawmill:			
1973	92.50	234.90	121.40
1974	113.80	236.30	120.60
1975	108.20	186.50	110.70
1976	127.60	227.40	144.30
1977	135.20	225.50	145.90
1978	154.60	268.10	189.50
1979	170.40	328.80	234.30
1980	259.70	434.60	276.10
1981	217.90	233.70	219.40
1982	202.30	211.50	202.50
1983	194.60	251.00	195.80

LOG GRADE AND YEAR	WATER AND INLAND SALES	EXPORT SALES	ALL SALES
No. 4 Sawmill:			
1973	82.60	173.00	92.67
1974	77.40	--	77.40
1975	40.40	213.30	42.20
1976	125.50	--	125.50
1977	136.90	--	136.90
1978	119.20	--	119.20
1979	175.80	257.30	206.40
1980	233.30	--	233.30
1981	162.00	--	162.00
1982	183.30	--	183.30
1983	221.00	--	221.00
Mixed grade:			
1973	81.20	366.20	96.30
1974	114.30	448.70	129.20
1975	126.60	347.30	134.10
1976	122.90	240.60	143.90
1977	142.20	284.00	157.30
1978	129.60	272.30	156.80
1979	121.40	314.70	179.00
1980	191.80	437.50	274.20
1981	251.20	295.00	252.60
1982	203.40	304.60	257.10
1983	196.00	393.70	317.60
Ungraded:			
1973	85.00	172.70	86.60
1974	100.80	--	100.80
1975	114.00	--	114.00
1976	130.50	125.60	130.20
1977	169.00	--	169.00
1978	214.50	--	214.50
1979	257.80	--	257.80
1980	208.10	329.00	210.70
1981	160.00	--	160.00
1982	140.00	--	140.00
1983	128.00	--	128.00
Average:			
1973	90.80	353.20	158.30
1974	138.10	393.30	165.90
1975	131.80	252.40	145.50
1976	132.20	337.60	188.40
1977	146.10	194.90	170.60
1978	146.80	323.90	185.00
1979	160.60	414.20	269.50
1980	223.30	547.60	352.20
1981	258.30	289.80	259.90
1982	105.00	303.60	137.40
1983	244.90	390.80	279.70

ource--Pacific Northwest Forest and Range Experiment Station compilation of regional log values
ased on composite log sales analyses of Industrial Forestry Association, Portland, Oregon. These
ues may reflect costs of towing, sorting, bundling, or other handling, depending on the place of
e in each transaction.

Table 42--Volume of timber sold or publicly owned or managed lands, Montana and Idaho, 1979-84

(In thousand board feet, Scribner scale

AGENCY	1979	1980	1981	1982	1983 Total	1983 2D QTR.	1984 1ST QTR.	1984 2D QTR.
Montana								
U.S. Forest Service	514,000	574,440	596,100	547,509	589,000	202,000	84,920	169,600
U.S. Bur. Land Management	9,140	11,000	9,061	6,000	16,375	500	100	0
U.S. Bur. Indian Affairs	57,400	25,405	24,693	17,198	13,136	5,674	7,449	10,543
State of Montana	106,209	24,662	28,853	25,400	23,559	5,922	5,600	4,908
Total	586,749	641,089	598,740	596,447	642,939	232,667	100,644	185,110
Idaho								
U.S. Forest Service	843,992	805,500	741,147	687,320	688,650	176,100	110,644	201,760
U.S. Bur. Land Management	715	19,283	3,000	11,538	12,133	1,400	0	912
U.S. Bur. Indian Affairs	1,604	2,381	14,484	7,000	8,605	8,376	0	0
State of Idaho	179,307	200,100	14,820	38,727	80,074	28,500	32,931	112,038
Total	1,025,646	1,027,308	804,671	744,655	790,062	220,988	143,575	314,713
All public lands								
U.S. Forest Service[1]	1,356,015	1,400,440	1,277,280	1,[illegible]	1,277,650	396,663	200,264	371,422
U.S. Bur. Land Management	9,855	30,362	42,282	1,[illegible]	28,508	[illegible]	100	912
U.S. Bur. Indian Affairs	59,027	27,786	39,177	24,200	21,741	14,050	7,449	10,543
State of Montana	28,110	24,662	28,853	25,400	23,559	5,922	5,600	4,908
State of Idaho	179,307	200,137	14,820	38,727	82,674	28,500	32,931	112,038
Total	1,612,435	1,713,397	1,402,412	1,341,097	1,413,001	453,667	246,419	499,823

Source--respective agencies listed.

[1]Convertible products only.

[2]Does not include cull log sales.

Table 43--Average stumpage prices of timber sold or publicly owned or managed lands, Montana and Idaho, 1979-84

(In dollars per thousand board feet)

AGENCY	1979	1980	1981	1982	1983 Average	1983 2D QTR.	1984 1ST QTR.	1984 2D QTR.
Montana:								
U.S. Forest Service[1]	54.66	43.31	41.46	34.80	33.47	33.39	35.00	34.83
U.S. Bur. Land Management	41.99	60.00	39.52	3[illegible].17	2[illegible]	14.90	8.09	[illegible]
U.S. Bur. Indian Affairs	114.61	104.00	64.00	73.50	51.13	50.00	58.86	49.00
State of Montana	114.00	79.44	99.00	81.00	83.70	86.52	66.57	64.73
Average	64.52	47.43	59.52	33.00	35.66	35.00	37.63	33.79
Idaho:								
U.S. Forest Service[1]	63.50	40.74	43.27	28.28	47.13	44.91	52.51	87.00
U.S. Bur. Land Management[2]	63.70	47.09	55.40	26.71	75.56	76.40	--	139.64
U.S. Bur. Indian Affairs	119.89	129.09	83.15	78.79	78.71	78.87	-	0
State of Idaho	102.23	92.21	101.83	45.00	71.04	64.02	64.84	69.77
Average	70.41	51.71	44.88	29.60	50.41	49.80	55.34	81.06
All public lands:								
U.S. Forest Service[1]	62.09	41.80	49.22	28.99	41.05	37.51	44.68	64.51
U.S. Bur. Land Management[2]	43.69	51.94	38.90	28.63	45.24	72.84	8.06	139.64
U.S. Bur. Indian Affairs	114.83	106.53	71.74	75.04	62.04	67.23	58.86	27.27
State of Montana	114.36	79.44	99.28	81.39	83.70	86.52	66.57	64.73
State of Idaho	102.23	92.21	101.83	45.26	71.04	64.02	64.84	69.77
Average	68.63	50.11	51.15	31.25	43.88	42.22	47.95	63.56

Source--respective agencies listed.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs, it includes an allowance for sale-area betterment (K-V funds). Beginning in 1984, prices for stumpage on National Forest lands are high bid value. Road costs and an allowance for sale-betterment (K-V funds) are included in the bid.

[2]Does not include cull log prices.

Table 44--Average stumpage prices for sawtimber sold on National Forests by selected species, Northern Region, 1973-84[1]

(In dollars per thousand board feet)

YEAR AND QUARTER	DOUGLAS-FIR	PONDEROSA PINE	WESTERN WHITE PINE	LODGEPOLE PINE	ENGELMANN SPRUCE	WESTERN HEMLOCK	CEDARS	LARCH	TRUE FIRS	ALL SPECIES
1973	50.70	66.50	65.90	38.30	65.80	42.60	45.20	66.30	46.10	53.30
1974	31.90	63.50	117.80	19.40	39.10	28.90	26.50	38.90	29.20	44.70
1975	14.40	22.40	36.20	19.20	10.90	2.00	42.50	20.30	4.80	18.30
1976	23.00	56.80	91.40	16.70	42.20	9.60	45.80	52.90	9.30	35.40
1977	41.50	96.60	122.70	38.30	61.40	11.90	72.00	72.20	20.20	53.20
1978	41.20	113.50	146.00	44.70	85.80	42.50	144.90	69.60	37.30	64.80
1979	51.90	127.20	185.60	34.40	75.90	62.10	117.20	91.40	43.90	70.90
1980	20.50	112.70	80.10	42.70	44.10	171.80	123.20	73.80	30.10	53.40
1981	44.20	74.20	149.70	54.50	63.00	61.40	95.60	67.20	78.40	63.90
1982	26.60	48.10	81.40	34.60	27.20	71.10	60.90	28.30	37.70	36.20
1983	42.50	60.50	96.30	34.10	55.20	47.50	142.80	51.00	65.10	53.70
1984--										
1st quarter	55.70	74.90	101.90	40.90	42.00	39.00	102.70	57.90	62.04	58.20
2d quarter	48.60	144.70	118.50	47.40	44.30	42.60	164.00	54.20	42.60	55.40
3d quarter										
4th quarter										
1984 average										

Source--Forest Service, U.S. Department of Agriculture. Northern Region includes Montana, northeastern Washington, northern Idaho, North Dakota, and northwestern South Dakota.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Before 1984, prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds). Starting in 1984, prices for stumpage on National Forest land are high bid value. Road costs and an allowance for sale betterment (K-V funds) are included in the bid.

Table 45--Volume of timber sold on publicly owned or managed lands in California, 1979-84

(In thousand board feet, Scribner scale)

AGENCY	1979	1980	1981	1982	1983 TOTAL	1983 2D QTR.	1984 1ST QTR.	1984 2D QTR.
U.S. Forest Service[1]	2,071,263	1,875,796	1,899,263	1,617,664	1,786,681	458,723	437,750	342,201
U.S. Bur. Land Manage.[2]	4,195	17,203	14,471	33,385	8,919	790	1,005	1,475
U.S. Bur. Indian Affairs	33,729	22,230	11,000	63,595	3,000	3,000	1,500	2,134
State of California	21,833	30,328	10,480	34,726	31,452	13,775	26,620	6,909
Total	2,131,020	1,945,557	1,935,214	1,749,370	1,830,052	476,288	466,875	352,719

Source--respective agencies listed.

[1]Convertible products only. Includes all of the Pacific Southwest Region and the portion of the Pacific Northwest Region in California.

[2]Does not include cull log sales or volume given away through free use permits.

Table 46--Average stumpage prices of timber sold on publicly owned or managed lands in California, 1979-84

(In dollars per thousand board feet)

AGENCY	1979	1980	1981	1982	1983 AVERAGE	1983 2D QTR.	1984 1ST QTR.	1984 2D QTR.
U.S. Forest Service[1]	201.08	241.39	149.78	53.87	70.66	60.68	86.45	56.32
U.S. Bur. Land Manage.[2]	102.59	173.25	84.26	41.10	78.47	20.07	14.59	72.63
U.S. Bur. Indian Affairs	157.70	158.28	224.73	153.90	110.00	110.00	26.67	63.41
State of California	370.76	283.94	190.57	133.93	188.59	116.05	184.57	134.74
Average	201.94	240.51	180.70	58.86	72.79	62.70	91.71	57.97

Source--respective agencies listed.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

[2]Does not include cull log sales or volume given away through free use permits.

Table 47--Average stumpage prices for sawtimber sold on National Forests by selected species, Pacific Southwest Region, 1973-84[1]

(In dollars per thousand board feet)

YEAR AND QUARTER	DOUGLAS-FIR	PONDEROSA AND JEFFREY PINES	SUGAR PINE	LODGEPOLE PINE	CEDARS	TRUE FIRS	ALL SPECIES
1973	84.80	108.60	89.30	12.40	86.40	70.20	83.10
1974	87.00	101.40	104.00	6.50	112.00	41.70	81.80
1975	51.40	71.00	99.00	22.40	79.90	19.70	53.80
1976	76.00	101.80	185.00	6.50	84.00	23.40	80.40
1977	124.30	131.40	168.50	165.20	337.90	50.60	121.10
1978	131.10	164.70	169.20	136.20	516.40	79.80	148.10
1979	186.60	239.00	375.40	25.40	497.10	96.00	206.20
1980	189.50	206.10	671.40	252.80	559.90	133.40	252.20
1981	146.70	196.20	224.10	123.60	108.20	90.30	156.10
1982	50.00	66.90	72.00	27.80	70.30R	36.30	54.50
1983—							
1st quarter	75.70	84.60	149.30	37.80	109.60	72.20	85.10
2d quarter	48.30	119.40	70.80	25.40	99.40	43.60	65.70
3d quarter	56.40	90.10	169.30	22.80	57.20	48.40	73.70
4th quarter	79.80	154.30	137.00	36.20	116.20	54.40	92.90
1983 average	63.30	104.00	136.70	28.80	84.60	53.80	76.90
1984--							
1st quarter	81.70	131.40	111.80	10.00	78.30	83.10	98.10
2d quarter	55.40	122.90	88.00	22.40	89.30	40.60	70.60
3d quarter							
4th quarter							
1984 average							

Source--Forest Service, U.S. Department of Agriculture. Pacific Southwest Region is the State of California.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Before 1984, prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds). Starting in 1984, prices for stumpage on National Forest lands are high bid value. Road costs and an allowance for sale-betterment (K-V funds) are included in the bid.

ble 48--Volume of timber sold on publicly owned or managed lands, Washington and Oregon, 1979-84

n thousand board feet, Scribner scale)

ENCY	1979	1980	1981	1982	1983 TOTAL	1983 2D QTR.	1984 1ST QTR.	1984 2D QTR.
stern Washington:								
.S. Forest Service[1]	1,222,548	1,114,024	1,224,969	1,066,085	1,153,819	310,440	236,743	218,171
.S. Bur. Indian Affairs	22,882	6,927	13,460	2,535	13,653	4,549	1,949	8,326
tate of Washington[2]	1,150,935	503,565	368,885	601,935	537,295	96,875	128,660	134,340
Total	2,396,365	1,624,516	1,607,314	1,670,555	1,704,767	411,864	367,352	360,837
stern Washington:								
.S. Forest Service[1]	420,819	428,631	389,029	322,315	495,326	94,276	81,280	84,088
.S. Bur. Land Manage.	2,645	1,798	3,898	3,025	3,414	0	4	0
.S. Bur. Indian Affairs	140,247	211,205	53,795	44,583	165,656	41,981	20,517	31,243
tate of Washington[2]	125,505	80,345	53,710	89,620	62,235	8,705	15,305	17,290
Total	689,216	721,979	500,432	459,543	726,631	144,962	117,106	132,621
stern Oregon:								
.S. Forest Service[1]	2,441,324	2,643,716	2,378,903	2,418,057	2,179,345	381,433	684,840	352,697
.S. Bur. Land Manage.	889,797	1,150,026	1,030,627	1,214,330	1,045,924	240,675.	274,625	266,631
.S. Bur. Indian Affairs[3]	0	0	3,340	0	2,361	2,361	1,021	2,191
tate of Oregon	219,378	238,931	135,461	301,947	268,416	95,737	35,769	21,252
Total	3,550,499	4,032,673	3,548,331	3,934,334	3,496,046	720,206	996,255	642,771
stern Oregon:								
.S. Forest Service[1]	1,271,677	1,168,327	1,294,928	1,164,264	1,148,349	209,789	294,695	297,121
.S. Bur. Land Manage.	6,525	2,301	17,864	15,197	19,212	14,792	427	4,720
.S. Bur. Indian Affairs	15,439	25,480	55,032	89,438	17,370	11,270	2,820	69,740
tate of Oregon	7,499	5,992	1,040	13,350	1,726	1,726	0	6,713
Total	1,301,140	1,202,100	1,368,864	1,282,249	1,186,657	237,577	297,942	378,294
l public lands:								
.S. Forest Service[1]	5,356,368	5,354,698	5,287,829	4,970,721	4,976,839	995,938	1,297,558	952,077
.S. Bur. Land Manage.	898,967	1,154,125	1,052,381	1,232,552	1,068,550	255,467	275,056	271,351
.S. Bur. Indian Affairs[3]	178,568	243,612	125,627	136,556	199,040	60,161	26,307	111,500
tate of Washington[2]	1,276,440	583,910	422,595	691,555	599,530	105,580	143,965	151,630
tate of Oregon	226,877	244,923	136,501	315,297	270,142	97,463	35,769	27,965
Total	7,937,220	7,581,268	7,024,941	7,346,681R	7,114,101	1,514,609	1,778,655	1,514,523

rce--respective agencies listed.

nvertible products only.

cludes sales under $20,000 since January 1980.

letz Reservation formed 1980.

Table 49--Average stumpage prices of timber sold on publicly owned or managed lands, Washington and Oregon, 1979-84

(In dollars per thousand board feet)

AGENCY	1979	1980	1981	1982	1983 AVERAGE	1983 2D QTR.	1984 1ST QTR.	1984 2D QT
Western Washington:								
U.S. Forest Service[1]	224.68	208.06	180.57	61.48	73.84	84.11	73.21	63.
U.S. Bur. Indian Affairs	264.95	182.32	129.09	128.64	97.71	103.53	46.76	115.
State of Washington[2]	332.10	304.71	208.95	146.88	147.00	135.45	145.50	114.
Average	276.66	237.91	186.65	92.35	97.09	97.34	98.39	83.
Eastern Washington:								
U.S. Forest Service[1]	104.68	90.92	77.57	30.61	38.60	56.09	53.88	24.
U.S. Bur. Land Manage.	16.80	21.25	105.60	43.64	51.84	--	62.50	
U.S. Bur. Indian Affairs	212.01	162.32	173.78	191.17	127.06	89.30	171.66	181.
State of Washington[2]	210.79	207.67	198.94	115.52	67.83	78.50	125.73	145.
Average	145.50	124.63	101.15	62.38	61.34	67.05	83.90	77.
Western Oregon:								
U.S. Forest Service[1]	332.09	354.60	276.36	92.44	129.33	131.32	121.01	107.
U.S. Bur. Land Manage.	292.59	323.63	246.68	89.40	131.14	125.59	121.36	113.
U.S. Bur. Indian Affairs[3]	--	--	365.16	--	170.20	170.20	65.47	121.
State of Oregon	314.93	332.25	262.31	117.52	165.39	186.42	164.55	98.
Average	321.13	344.44	269.30	93.43	132.67	136.86	22.62	109.
Eastern Oregon:								
U.S. Forest Service[1]	169.55	130.22	144.49	77.28	81.70	77.20	91.98	104.
U.S. Bur. Land Manage.	103.25	118.72	84.31	62.45	57.58	43.00	32.56	22.
U.S. Bur. Indian Affairs	196.29	266.61	112.47	82.85	140.60	169.54	3.07	113.
State of Oregon	229.38	186.29	16.00	111.66	59.68	59.68	--	120.
Average	169.88	133.37	142.32	56.33	82.14	79.52	91.05	105.
All public lands:								
U.S. Forest Service[1]	251.12	254.06	208.60	72.69	96.45	98.08	101.49	89.
U.S. Bur. Land Manage.	290.41	322.75	243.40	88.96	129.56	120.81	121.22	112.
U.S. Bur. Indian Affairs[3]	217.43	173.80	147.23	119.00	126.74	108.57	140.21	133.
State of Washington[2]	320.17	291.35	207.68	142.82	138.71	134.53	143.39	117.
State of Oregon	312.10	328.68	260.43	114.27	164.71	184.18	164.55	103.
Average	267.66	267.21	213.67	84.80	108.43	110.40	109.78	99.

Source--respective agencies listed.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds

[2]Excludes sales under $20,000 since January 1980.

[3]Siletz Reservation formed 1980.

Table 50--Average stumpage prices for sawtimber sold on National Forests by selected species, Pacific Northwest Region, 1973-84[1]

(In dollars per thousand board feet)

YEAR AND QUARTER	DOUGLAS-FIR		PONDEROSA AND JEFFREY PINES	SUGAR PINE	WHITE PINE	LODGEPOLE PINE	ENGELMANN SPRUCE	SITKA SPRUCE	WESTERN HEMLOCK	CEDARS[2]	LARCH	NOBLE FIR AND SHASTA RED FIR	OTHER TRUE FIRS	ALL SPECIES
	WEST SIDE	EAST SIDE												
1973	138.10	60.40	77.70	60.50	50.70	36.40	55.60	93.40	99.20	146.80	52.90	81.40	73.80	102.80
1974	202.40	68.20	110.60	139.10	121.00	25.70	50.20	72.60	110.50	217.00	11.00	136.20	80.90	142.40
1975	169.50	34.30	43.10	109.90	84.40	15.40	13.70	75.90	68.50	119.20	5.80	117.70	45.10	101.60
1976	176.20	38.60	79.40	118.90	116.00	40.20	10.50	53.10	78.10	160.30	20.30	105.60	55.00	113.20
1977	225.90	71.20	138.40	162.80	142.70	35.40	36.50	103.00	89.20	149.60	62.10	126.90	85.10	153.80
1978	250.31	98.50	218.70	207.90	123.70	41.60	85.40	109.50	111.70	206.60	56.40	122.50	99.10	185.00
1979	394.30	81.70	238.00	267.30	181.90	47.10	51.60	227.90	197.10	329.10	90.50	211.30	189.80	270.00
1980	432.20	70.80	190.80	167.00	102.80	44.60	34.70	306.50	208.00	301.00	43.60	241.80	167.90	285.50
1981	350.20	94.00	206.40	174.50	100.60	36.60	15.00	238.00	162.00	168.70	69.70	147.30	108.80	230.60
1982	118.20	5.80	78.60	83.60	50.00	17.40	19.50	49.50	44.60	101.90	37.50	28.40	40.00	80.20
1983--														
1st quarter	180.50	31.70	132.70	64.00	24.80	18.90	22.10	25.90	52.60	51.00	31.60	39.50	57.10	122.60
2d quarter	152.80	57.00	127.90	165.60	40.40	22.30	37.60	18.50	71.50	102.90	22.80	61.00	77.30	112.90
3d quarter	142.20	30.70	129.70	161.70	136.90	21.80	42.60	35.20	55.00	68.40	18.90	83.60	50.90	93.90
4th quarter	154.80	39.30	157.40	247.20	78.50	11.00	19.70	43.60	83.70	173.90	62.10	20.90	54.70	119.10
1983 average	161.60	37.60	134.30	131.80	74.30	20.20	28.70	30.00	61.90	68.70	31.80	42.40	58.30	112.50
1984--														
1st quarter	165.80	60.80	148.20	265.60	84.80	39.40	38.20	55.10	83.90	184.90	51.90	96.90	54.80	128.70
2d quarter	152.80	57.00	127.90	165.60	40.40	22.30	37.60	18.50	71.90	102.90	22.80	61.00	77.30	112.90
3d quarter														
4th quarter														
1984 average														

Source--Forest Service, U.S. Department of Agriculture. Pacific Northwest Region includes Oregon and Washington.

[1]Prices for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Before 1984, prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-betterment (K-V funds) Starting in 1984, prices for stumpage on National Forest lands are high bid value. Road costs and an allowance for sale-betterment (K-V funds) are included in the bid.

[2]Includes Port-Orford-cedar.

Table 51--Volume and average stumpage price of selected species on the National Forests of the Pacific Northwest Region, 1984[1/ 2/]

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

NATIONAL FOREST	DOUGLAS-FIR				PONDEROSA AND JEFFREY PINES		WESTERN HEMLOCK		TRUE FIRS[3/]		ALL SPECIES	
	West side		East side									
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
Western Oregon:												
Mount Hood--												
1st qtr.	54,226	150.24	4,300	31.28	3,920	42.50	36,413	125.74	4,210	53.85	131,257	106.72
2d qtr.	22,297	133.12	9,680	78.73	1,600	14.67	14,141	81.83	2,140	26.27	63,516	98.14
3d qtr.												
4th qtr.												
Total and average												
Rogue River--												
1st qtr.	31,190	196.47	0	--	2,145	119.01	0	--	5,175	89.05	61,275	146.69
2d qtr.	23,646	134.24	0	--	930	59.47	1,750	15.75	8,940	28.68	45,036	106.19
3d qtr.												
4th qtr.												
Total and average												
Siskiyou--												
1st qtr.	25,394	94.22	0	--	60	47.93	250	33.67	830	42.89	31,523	103.12
2d qtr.	11,765	54.28	0	--	10	50.36	500	9.94	130	11.27	16,680	254.51
3d qtr.												
4th qtr.												
Total and average												
Siuslaw--												
1st qtr.	82,871	173.78	0	--	0	--	17,712	89.85	0	--	109,600	151.00
2d qtr.	52,585	132.15	0	--	0	--	5,750	74.94	0	--	61,398	123.19
3d qtr.												
4th qtr.												
Total and average												
Umpqua--												
1st qtr.	100,233	160.61	0	--	0	--	0	--	0	--	120,593	146.73
2d qtr.	51,180	106.21	0	--	0	--	800	15.04	0	--	68,150	92.69
3d qtr.												
4th qtr.												
Total and average												
Willamette--												
1st qtr.	128,986	170.66	0	--	300	234.72	27,715	33.94	360	12.62	214,576	116.06
2d qtr.	46,665	150.85	0	--	500	286.01	10,107	40.82	680	15.83	78,897	108.04
3d qtr.												
4th qtr.												
Total and average												
All western Oregon:												
1st qtr.	422,900	163.59	4,300	31.28	6,425	77.07	82,090	86.73	10,575	68.81	668,824	127.68
2d qtr.	208,138	125.98	9,680	78.73	3,040	73.12	33,048	61.89	11,890	27.32	333,727	112.86
3d qtr.												
4th qtr.												
Total and average												
Western Washington:												
Gifford Pinchot--												
1st qtr.	51,530	87.98	0	--	0	--	5,890	36.15	14,920	64.06	82,660	69.97
2d qtr.	38,345	130.06	0	--	0	--	18,813	89.94	11,300	76.43	79,423	98.06
3d qtr.												
4th qtr.												
Total and average												
Mount Baker-Snoqualmie--												
1st qtr.	20,245	113.46	0	--	0	--	28,217	75.50	15,060	86.94	89,575	86.94
2d qtr.	10,165	136.72	0	--	0	--	22,526	50.46	15,365	52.23	61,000	65.42
3d qtr.												
4th qtr.												
Total and average												
Olympic--												
1st qtr.	10,416	106.72	0	--	0	--	27,084	41.80	3,760	41.39	58,904	61.98
2d qtr.	3,700	34.71	0	--	0	--	13,420	40.00	21,530	13.05	48,452	28.01
3d qtr.												
4th qtr.												
Total and average												

ble 51--Volume and average stumpage price of selected species on the National Forests of the Pacific Northwest Region, 1984[1/ 2/] (continued)

olume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

IONAL REST	DOUGLAS-FIR				PONDEROSA AND JEFFREY PINES		WESTERN HEMLOCK		TRUE FIRS[3/]		ALL SPECIES	
	WEST SIDE		EAST SIDE									
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
All western Washington:												
1st qtr.	82,191	96.63	0	--	0	--	61,191	56.79	33,740	52.11	231,139	74.40
2d qtr.	52,210	124.60	0	--	0	-	54,759	61.46	48,195	40.45	188,875	69.55
3d qtr.												
4th qtr.												
Total and average												
western Oregon and tern Washington:												
t qtr.	505,091	152.69	4,300	31.28	6,524	77.07	143,281	73.94	44,315	56.10	899,963	114.00
qtr.	260,348	125.70	9,680	78.73	3,040	73.12	87,807	61.62	60,085	37.85	522,602	97.21
qtr.												
h qtr.												
tal and average												
tern Oregon:												
schutes--												
st qtr.	0	--	1,980	309.66	20,900	180.87	0	--	2,880	30.17	31,200	144.65
d qtr.	0	--	620	34.61	16,885	236.38	0	--	1,169	28.42	25,655	174.60
d qtr.												
th qtr.												
otal and average												
remont--												
st qtr.	0	--	0	--	13,910	104.15	0	--	9,920	44.34	24,980	76.03
d qtr.	0	--	0	--	24,070	127.08	0	--	6,100	11.60	36,870	86.57
d qtr.												
th qtr.												
otal and average												
lineur--												
st qtr.	0	--	3,920	7.83	57,880	172.39	0	--	11,300	3.77	79,350	127.19
d qtr.	0	--	9,040	15.68	38,125	177.63	0	--	6,090	1.00	55,295	128.00
d qtr.												
th qtr.												
otal and average												
hoco--												
st qtr.	0	--	3,400	20.07	23,890	112.50	0	--	2,300	15.07	29,560	94.40
d qtr.	0	--	5,9150	21.79	53,650	133.34	0	--	2,050	7.56	61,200	118.99
d qtr.												
th qtr.												
otal and average												
ltilla--												
st qtr.	0	--	0	--	0	--	0	--	6,180	53.25	16,070	24.39
d qtr.	0	--	0	--	0	--	0	--	0	--	0	--
d qtr.												
th qtr.												
tal and average												
lowa-Whitman--												
t qtr.	0	--	16,330	34.85	10,060	96.48	0	--	11,010	49.89	58,220	37.51
qtr.	0	--	6,035	82.26	19,015	189.11	0	--	1,200	28.07	26,450	156.39
qtr.												
h qtr.												
tal and average												
lema--												
t qtr.	0	--	2,010	37.66	31,390	132.38	1,100	111.00	6,790	15.59	44,590	125.62
qtr.	0	--	500	45.94	16,600	276.93	0	-	1,900	107.79	40,050	128.85
qtr.												
h qtr.												
tal and average												
l eastern Oregon:												
st qtr.	0	--	32,640	42.77	158,030	145.67	1,100	111.00	50,380	31.52	283,970	97.00
d qtr.	0	--	21,345	37.24	168,345	173.27	0	--	18,539	19.64	245,120	127.52
d qtr.												
th qtr.												
otal and average												

Table 51--Volume and average stumpage price of selected species on the National Forests of the Pacific Northwest Region, 1984[1/] [2/] (continued)

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

NATIONAL FOREST	DOUGLAS-FIR				PONDEROSA AND JEFFREY PINES		WESTERN HEMLOCK		TRUE FIRS[3/]		ALL SPECIES	
	WEST SIDE		EAST SIDE									
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
Eastern Washington:												
Colville--												
1st qtr.	0	--	539	124.68	73	81.59	0	--	2,526	22.22	19,309	36.86
2d qtr.	0	--	349	75.00	1,000	19.35	0	--	242	45.95	13,471	18.32
3d qtr.												
4th qtr.												
Total and average												
Okanogan--												
1st qtr.	0	--	7,191	86.27	120	25.37	0	--	0	--	8,111	86.44
2d qtr.	0	--	8,020	29.88	3,100	16.59	0	--	0	--	11,120	26.17
3d qtr.												
4th qtr.												
Total and average												
Wenatchee--												
1st qtr.	0	--	30,578	62.64	12,655	56.09	2,960	15.81	5,277	20.95	52,770	52.92
2d qtr.	0	--	21,999	39.50	4,980	85.93	0	--	13,500	6.12	41,439	33.34
3d qtr.												
4th qtr.												
Total and average												
All eastern Washington:												
1st qtr.	0	--	38,308	67.95	12,848	55.95	2,960	15.81	7,803	21.36	80,190	52.45
2d qtr.	0	--	30,368	37.67	9,080	55.26	0	--	13,742	6.82	66,030	29.07
3d qtr.												
4th qtr.												
Total and average												
All eastern Oregon and eastern Washington:												
1st qtr.	0	--	70,948	56.37	170,878	138.92	4,060	42.00	58,183	30.16	364,164	87.19
2d qtr.	0	--	51,713	37.31	177,425	168.23	0	--	32,281	14.18	311,150	106.63
3d qtr.												
4th qtr.												
Total and average												
Pacific Northwest Region:												
1st qtr.	505,091	152.69	75,248	54.93	177,308	136.68	147,341	73.06	102,498	41.37	1,264,123	106.27
2d qtr.	260,348	125.70	61,393	43.84	180,465	165.64	87,807	61.82	92,366	29.59	833,752	100.72
3d qtr.												
4th qtr.												
Total and average												
All of Oregon:												
1st qtr.	422,900	163.59	36,940	41.43	164,455	142.99	83,190	87.05	60,955	37.99	952,794	118.54
2d qtr.	208,138	125.98	31,025	50.18	171,385	171.49	33,048	61.89	30,429	22.64	578,447	119.07
3d qtr.												
4th qtr.												
Total and average												
All of Washington:												
1st qtr.	82,191	96.63	38,308	67.95	12,848	55.95	64,151	54.93	41,543	46.34	311,329	68.75
2d qtr.	52,210	124.60	30,368	37.37	9,080	55.69	54,759	61.46	61,937	32.99	254,905	59.06
3d qtr.												
4th qtr.												
Total and average												

Source--U.S. Department of Agriculture. Pacific Northwest Region includes Oregon and Washington.

1/ Preliminary.

2/ Prices for individual sales may vary from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage in National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

3/ Does not include noble fir or Shasta red fir.

e 52--Volume of timber sold on publicly owned or managed lands in Alaska, 1979-84

thousand board feet, Scribner scale)

CY	1979	1980	1981	1982	1983 TOTAL	1983 2D QTR.	1984 1ST QTR.	1984 2D QTR.
Forest Service[1]	93,733	145,285	163,700	71,429	79,994	6,696	10,631	13,744
Bur. Land Manage.[2]	22	125	32	1,270	0	0	0	0
Bur. Indian Affairs	258,360	12,794	200	7,680	0	0	0	0
e of Alaska	156,235	4,949	18,402	24,154	72,145	3,960	4,062	6,270
otal	508,350	163,153	182,334	104,533	152,139	10,656	14,693	20,014

ce--respective agencies listed.

vertible products only.

s not include cull log sales or volume given away through free use permits.

e 53--Average stumpage prices of timber sold on publicly owned or managed lands in Alaska, 1979-84

dollars per thousand board feet)

CY	1979	1980	1981	1982	1983 AVERAGE	1983 2D QTR.	1984 1ST QTR.	1984 2D QTR.
Forest Service[1]	159.71	101.72	46.91	32.03	14.82	65.76	8.50	11.09
Bur. Land Manage.[2]	34.09	6.00	34.00	28.08	--	--	--	--
Bur. Indian Affairs	5.31	151.83	2.00	122.40	--	--	--	--
e of Alaska	3.22	24.63	19.21	18.23	87.96	18.53	15.98	15.06
verage	33.14	103.24	44.06	35.43	49.46	48.21	10.57	12.33

ce--respective agencies listed. Includes products other than sawtimber.

ces received for individual sales may vary significantly from the averages shown in this table because of differences pecies mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other ted price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

s not include cull log sales or volume given away through free use permits.

Table 54--Average stumpage prices for sawtimber sold on National Forests by selected species, Alaska Region, 1973-84[1/]

(In dollars per thousand board feet)

YEAR AND QUARTER	SITKA SPRUCE	WESTERN HEMLOCK	CEDAR AND OTHER SOFTWOODS	ALL SPECIES
1973	13.30	11.50	21.10	12.50
1974	41.80	22.30	41.70	28.80
1975	33.00	18.10	60.70	23.20
1976	25.10	12.00	67.30	28.00
1977	65.00	65.00	4.00	63.00
1978	99.17	4.27	136.17	40.57
1979	289.50	100.00	161.70	142.70
1980	213.30	18.40	437.40	101.10
1981	131.60	24.30	4.50	47.50
1982	39.00	14.50	35.70	32.40
1983--				
1st quarter	24.50	7.70	13.80	17.10
2d quarter	70.50	47.20	6.90	60.50
3d quarter	19.95	5.00	8.90	9.80
4th quarter	17.00	5.80	7.00	20.30
1983 average	29.00	6.70	8.90	14.60
1984[2/]--				
1st quarter	14.70	6.50	29.20	15.60
2d quarter	23.02	6.91	13.10	12.23
3d quarter				
4th quarter				
1984 average				

Source--Forest Service, U.S. Department of Agriculture. Alaska Region is the State of Alaska.

1/Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Before 1984, prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

2/Beginning in 1984, prices for stumpage on National Forest land are high bid value. Road costs and an allowance for sale-betterment (K-V funds) are included in the bid.

55--Volume and average value of all species of timber sold from the USDA Forest Service Regions of the Western United States, 1973-84[1]

me in million board feet, Scribner scale; value in dollars per thousand board feet)

	NORTHERN REGION		ROCKY MOUNTAIN REGION		SOUTHWESTERN REGION		INTERMOUNTAIN REGION		PACIFIC SOUTHWEST REGION		PACIFIC NORTHWEST REGION		ALASKA REGION	
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
	1,012.0	48.02	326.9	18.62	391.3	57.58	495.8	76.15	2,202.5	81.64	4,606.4	93.10	73.9	6.88
	1,036.1	35.62	233.0	11.62	237.6	37.75	293.9	45.32	1,787.2	78.19	4,818.7	125.22	128.2	25.82
	892.8	17.09	385.5	4.30	368.3	19.83	413.4	8.26	1,870.8	52.21	5,058.4	92.25	147.4	21.41
	872.0	32.96	290.7	7.70	293.4	33.01	290.5	16.42	1,425.0	77.87	3,624.2	104.23	15.8	21.80
	1,043.3	49.46	325.7	16.91	281.5	68.86	424.6	19.81	1,705.8	118.40	4,662.8	140.29	1.3	9.77
	1,090.9	61.35	366.8	23.21	386.3	86.19	364.0	36.75	1,983.1	145.80	4,841.4	172.63	178.3	33.99
	1,089.1	66.23	382.3	8.41	368.4	90.64	330.3	40.59	2,051.8	200.54	5,364.9	251.69	132.2	127.55
	1,158.5	46.48	324.9	5.48	338.1	49.11	368.7	26.80	1,867.3	242.22	5,326.7	254.65	147.7	93.84
	1,033.7	57.45	417.7	8.68	444.7	86.38	342.0	16.05	1,886.6	148.14	5,294.7	209.10	165.7	46.47
	1,004.8	33.22	338.7	5.72	358.0	23.32	342.6	11.52	1,674.1	52.23	4,957.0	72.73	74.0	31.37
-														
qtr.	244.1	46.27	114.8	13.42	55.4	21.20	40.1	11.95	437.6	83.83	1,678.3	108.68	1.0	17.24
tr.	357.8	45.45	94.8	10.53	80.9	45.11	71.1	14.18	458.7	60.86	980.3	97.85	6.7	65.76
tr.	305.1	47.14	84.5	18.14	174.9	35.59	219.5	24.96	665.0	64.95	1,344.7	78.98	71.6	9.84
qtr.	148.3	44.12	36.0	11.98	44.0	37.41	64.6	19.99	221.1	82.82	956.3	97.85	.8	30.01
l or age	1,055.3	45.93	330.0	13.64	355.2	35.74	395.5	22.25	1,782.4	70.75	4,959.3	96.40	80.1	14.82
-														
qtr.	163.9	48.75	89.5	13.36	111.1R	39.96	44.1	23.08	429.8	86.87	1,304.3	101.32	10.6	8.50
tr.	297.0	38.59	100.9	16.42	69.4	42.73	92.9	23.29	338.3	56.26	980.1	97.85	13.7	11.14
tr.														
qtr.														
l or age														

e: Respective Regions of the Forest Service, U.S. Department of Agriculture.

hern Region includes Montana, northeastern Washington, northern Idaho, North Dakota, and northwestern South Dakota; Rocky Mountain Region includes ado, Kansas, Nebraska, remainder of South Dakota, and eastern Wyoming; Southwestern Region includes Arizona and New Mexico; Intermountain Region in- s southern Idaho, Nevada, Utah, and western Wyoming; Pacific Southwest Region includes California and Hawaii; Pacific Northwest Region includes n and Washington; Alaska Region is all of Alaska.

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56--Volume and average value of all species of timber harvested from the USDA Forest Service Regions of the Western United States, 1973-84[1]

me in million board feet, Scribner scale; value in dollars per thousand board feet)

	NORTHERN REGION		ROCKY MOUNTAIN REGION		SOUTHWESTERN REGION		INTERMOUNTAIN REGION		PACIFIC SOUTHWEST REGION		PACIFIC NORTHWEST REGION		ALASKA REGION	
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
	1,133.7	35.96	329.4	20.20	350.7	38.20	470.7	29.26	2,010.7	58.08	5,369.6	48.15	591.6	6.86
	1,019.4	29.87	295.0	14.41	366.7	41.90	403.3	28.88	1,734.6	54.64	4,385.4	56.97	549.6	10.63
	840.3	26.85	245.1	10.60	394.0	30.35	356.7	28.19	1,508.7	45.19	3,764.6	58.73	413.1	8.17
	1,101.1	40.83	305.0	17.20	396.8	50.25	468.7	55.17	1,889.6	69.38	4,395.9	84.12	472.2	6.31
	1,008.0	43.25	311.0	16.72	412.1	52.82	431.4	51.95	1,801.3	90.81	4,113.6	106.25	491.3	3.82
	1,005.8	50.55	276.5	17.85	345.2	66.16	397.6	32.23	1,788.2	102.41	4,514.2	131.47	408.6	4.37
	957.5	54.46	293.8	15.27	385.8	64.72	412.7	48.16	1,726.6	100.08	4,388.5	135.53	459.5	4.38
	834.1	35.97	240.0	11.48	336.1	44.27	268.9	24.06	1,507.8	86.82	3,489.4	125.36	453.7	16.42
	864.0	36.53	256.8	12.15	267.6	53.63	301.3	21.62	1,091.9	95.71	2,978.8	118.44	387.5	13.20
	528.9	22.39	258.7	6.97	180.0	25.29	287.8	11.13	937.3	47.80	2,458.2	75.05	345.5	14.85
3														
t tr.	117.6	15.47	58.5	7.13	33.6	41.33	17.8	7.68	115.6	111.85	646.5	99.20	39.5	2.34
r.	185.6	71.34	38.0	15.12	75.5	51.14	49.8	45.20	372.2	120.81	1,012.1	112.02	77.6	14.87
r.	463.9	38.49	133.1	12.35	149.1	35.65	180.1	19.72	772.0	96.54	1,439.1	93.69	65.7	.60
h tr.	304.8	41.56	116.2	8.50	120.2	45.96	169.5	14.39	416.5	75.32	1,189.8	82.76	69.2	17.09
t or ege	1,071.9	38.15	345.8	10.48	378.4	42.52	417.2	44.06	1,676.3	97.71	4,287.5	95.81	251.9	10.01
4														
t tr.	167.9	54.70	61.7	15.32	46.8	33.82	30.9	25.26	191.4	103.79	858.0R	118.73	67.0	13.03
r.	127.7	48.83	34.2	17.94	87.5	42.27	29.6	15.53	414.8	98.85	1012.1	112.02	44.6	35.88
r.														
h tr.														
t or ege														

rc Respective Regions of the Forest Service, U.S. Department of Agriculture.

rtern Region includes Montana, northeastern Washington, northern Idaho, North Dakota, and northwestern South Dakota; Rocky Mountain Region includes or lo, Kansas, Nebraska, remainder of South Dakota, and eastern Wyoming; Southwestern region includes Arizona and New Mexico; Intermountain Region in- ude southern Idaho, Nevada, Utah, and western Wyoming; Pacific Southwest Region includes California and Hawaii; Pacific Northwest Region includes go and Washington; Alaska Region is all of Alaska.

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Table 57--Average stumpage prices received in British Columbia on timber billed from tree farm licenses, forest licenses, timber sale harvesting licenses, and timber sale licenses other than small business sales, by species and by coast and interior, 1981-83[1/]

(Volume in cubic meters[2/]; value in Canadian dollars[3/])

SPECIES AND YEAR	COAST[4/] VOLUME	COAST[4/] AVERAGE VALUE	INTERIOR[5/] VOLUME	INTERIOR[5/] AVERAGE VALUE
Balsam:				
1981	3,481	9.43	4,127	1.55
1982	2,260	2.90	3,450	1.18
1983	2,410	2.81	3,051	.97
Cedar:				
1981	3,697	7.36	1,443	2.05
1982	2,871	3.25	1,313	1.74
1983	3,011	3.50	917	1.57
Cypress:				
1981	573	53.37	4	14.16
1982	387	17.28	4	8.67
1983	281	9.37	4	5.43
Fir:				
1981	1,563	13.32	3,235	3.29
1982	1,292	6.28	2,802	2.03
1983	1,280	4.52	2,821	1.14
Hemlock:				
1981	6,969	9.55	2,288	.94
1982	5,200	2.65	1,313	.91
1983	5,505	2.61	646	.86
Larch:				
1981	0	--	276	1.64
1982	0	--	211	1.33
1983	0	--	271	1.22
Lodgepole pine:				
1981	11	2.36	12,300	1.26
1982	2	2.00	10,315	1.21
1983	5	1.20	11,168	.84
Spruce:				
1981	768	31.97	12,549	2.66
1982	771	10.93	12,075	1.36
1983	736	11.62	12,944	1.24
White pine:				
1981	31	6.84	320	9.54
1982	25	2.56	164	5.68
1983	18	1.93	126	2.01
Other species:				
1981	34	2.21	90	3.27
1982	48	2.98	90	1.97
1983	10	1.40	134	1.14
All species:				
1981	17,127	11.85	36,352	2.02
1982	12,858	4.13	31,737	1.37
1983	13,256	3.70	32,082	1.00

Source--Province of British Columbia Ministry of Forests, Victoria.

1/ Fiscal year ending March 31.

2/ Factors to convert cubic meters to board feet, Scribner scale, vary according to size and quality of timber. Size and quality may vary from one year to the next and between the coast and interior regions. For the coast, the approximate conversion factor lies between 5.0 and 6.0 cubic meters per 1,000 board feet; for the interior, 5.75 to 6.5 cubic meters per 1,000 board feet.

3/ Average stumpage prices do not reflect the effect of road and other credits against stumpage as authorized under section 88 of the British Columbia Forest Act of 1978.

4/ Coast region includes portions of Prince Rupert and Vancouver forest regions.

5/ Interior region includes Cariboo, Kamloops, Nelson, Prince George, and portions of Prince Rupert and Vancouver forest regions.

ble 58--Uncut volume under contract on National Forest lands in California, Montana, aho, Oregon, and Washington, 1973-84[1/]

n million board feet, Scribner log rule)

AR	CALIFORNIA	MONTANA	IDAHO[2/] NORTHERN	IDAHO[2/] SOUTHERN	OREGON	WASHINGTON
73	NA	1,362.1	1,333.3	[3/]1,089.1	7,549.1	3,196.3
74	5,030.2	1,242.4	1,438.3	1,040.1	7,004.2	3,255.1
75	5,594.0	1,214.8	1,541.3	1,106.4	7,752.2	3,704.8
76	[4/]5,516.3	1,350.4	[4/]1,650.5	578.9	7,755.8	3,822.3
77	[3/]4,882.3	[3/]1,309.9	[3/]1,480.1	[3/]993.6	7,351.5	4,293.5
78	5,126.4	[3/]1,331.4	[3/]1,604.9	[4/]1,009.2	8,538.3	3,948.3
79	[3/]5,221.5	[3/]1,426.0	[3/]1,525.5	[3/]939.3	8,610.5	4,730.6
80	[3/]5,834.9	1,468.6	1,386.6	819.1	9,939.3	4,526.7
81	[3/]6,225.2	[3/]1,631.8	[3/]1,693.6	[3/]780.7	[4/]12,020.1	[4/]5,377.1
82	[4/]7,365.6	[3/]1,800.7	[3/]1,833.6	[5/]756.0E	[4/]12,646.6	[4/]5,478.3
83	[4/]6,974.9	[3/]1,848.9	[3/]1,995.9	[3/]807.0	[4/]13,361.9	[4/]5,280.4
84	[4/]7,278.0	[3/]1,752.2	[3/]1,740.1	[3/]810.0	[4/]12,857.4	[4/]15,312.0

urce--Forest Service, U.S. Department of Agriculture, Regions 1, 4, 5, and 6.

As of December 31 unless otherwise noted.

National Forests in northern Idaho for fiscal years 1972 and 1973 are Clearwater, eur D'Alene, Kaniksu, Nezperce, St. Joe. Starting with fiscal year 1974, the National rests in northern Idaho are Clearwater, Nezperce, and the Panhandle administrative unit ich absorbed the Coeur D'Alene and the St. Joe National Forests; in southern Idaho, the tional Forests are Boise, Caribou, Challis, Payette, Salmon, and Targhee.

As of September 30.

As of June 30.

E = estimated.

= not available.

Table 59--Allowable annual cut and uncut volume under contract on Oregon State lands, 1973-83[1/]

(In million board feet, Scribner log rule)

YEAR	ALLOWABLE CUT	UNCUT VOLUME UNDER CONTRACT	RATIO
1973	193	338	1.8
1974	200	333	1.7
1975	206	391	1.9
1976	203	428	2.1
1977	220	446	2.0
1978	241	443	1.8
1979	223	472	2.2
1980	225	482	2.1
1981	220	507	2.3
1982	220	676	3.1
1983	205	503	2.5

Source--State of Oregon, Department of Forestry.

[1/]As of December 31.

Table 60-Allowable annual cut and uncut volume under contract on Washingto State lands, 1973-84[1/]

(In million board feet, Scribner log rule)

YEAR	ALLOWABLE CUT	UNCUT VOLUME UNDER CONTRACT	RATIO
1973	774	1,152	1.5
1974	774	1,511	2.0
1975	774	1,734	2.2
1976	774	1,977	2.6
1977	774	2,021	2.6
1978	774	1,801	2.3
1979	774	1,880	2.4
1980	805	1,893	2.4
1981	805	1,906	2.4
1982	805	1,651	2.1
1983	805	1,824	2.3
1984	700	1,365	2.0

Source--State of Washington, Department of Natural Resources.

[1/]As of June 30.

Table 61--Small business set-aside sales on National Forests by number and volume, Pacific Northwest Region, 1973-84

Year and quarter	COLVILLE[1]		DESCHUTES		FREMONT		GIFFORD PINCHOT		MALHEUR		MOUNT BAKER-SNOQUALMIE[2]		MOUNT HOOD	
	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME
	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft
1973	0	--	0	--	2	25,600	12	18,740	0	--	0	--	0	--
1974	4	30,100	0	--	4	46,300	33	172,615	1	650	8	26,860	11	63,527
1975	4	13,855	0	--	5	66,920	18	147,050	2	2,135	8	56,320	17	66,390
1976	1	2,263	0	--	1	15,200	7	68,250	0	--	2	8,350	4	10,658
1977	3	13,800	7	63,290	8	69,000	13	192,500	0	--	10	70,450	15	76,379
1978	4	43,500	0	--	1	357	15	161,500	0	--	0	--	20	83,836
1979	5	42,760	4	2,150	11	79,460	0	--	0	--	19	11,575	34	86,586
1980	2	20,400	3	2,032	6	44,360	16	113,140	0	--	18	6,763	44	26,525
1981	14	39,075	10	7,525	7	38,900	3	290	1	89	15	12,572	29	41,313
1982	10	38,460	9	9,580	8	13,440	18	30,920	0	--	12	4,400	31	16,246
1983	4	2,495	1	640	12	56,890	22	18,671	4	1,165	11	11,075	32	16,905
1984--														
1st qtr.	1	400	0	--	2	8,900	2	10,020	1	545	3	8,470	4	1,230
2d qtr.	3	3,080	1	2,020	2	8,900	12	8,323	0	--	2	1,060	6	1,648
3d qtr.														
4th qtr.														
1984 total														

Year and quarter	OCHOCO		DEANDOAN		OLYMPIC		ROGUE RIVER		SISKIYOU		SIUSLAW		UMATILLA	
	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME
	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft
1973	0	--	0	--	22	92,199	0	--	17	94,680	14	72,701	5	22,400
1974	0	-	3	19,000	12	78,990	28	98,752	11	52,775	34	174,471	11	74,710
1975	3	39,550	2	21,000	8	53,842	24	143,665	22	59,331	26	201,478	5	28,620
1976	5	19,270	2	9,300	5	45,579	18	46,254	7	22,335	17	118,763	6	23,110
1977	0	--	1	11,500	2	30,926	25	100,807	14	58,980	17	91,027	7	31,100
1978	5	34,300	0	-	6	44,615	47	171,251	13	62,300	39	231,303	0	--
1979	3	23,500	7	20,105	12	106,105	50	118,818	2	670	16	120,834	4	35,500
1980	1	7,700	2	10,600	12	69,100	31	123,125	7	29,510	7	45,137	3	18,200
1981	5	35,000	2	13,100	6	58,500	54	168,580	24	78,733	44	201,038	7	36,936
1982	3	1,100	3	15,750	4	1,860	26	85,692	33	45,719	44	94,606	1	150
1983	2	640	0	- -	4	2,660	46	86,635	14	29,755	15	2,951	5	32,400
1984--														
1st qtr.	0	--	0	--	1	140	3	990	4	25,440	6	904	2	5,400
2d qtr.	0	--	0	--	0	-	8	8,036	3	13,980	1	230	0	--
3d qtr.														
4th qtr.														
1983 total														

Year and quarter	UMPQUA		WALLOWA-WHITMAN		WENATCHEE		WILLAMETTE		WINEMA		ALL FORESTS	
	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME
	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft
1973	0	--	8	77,400	0	--	7	58,510	5	22,460	92	484,690
1974	22	124,807	0	--	0	--	7	61,520	5	35,550	195	1,060,627
1975	29	146,668	0	--	2	17,400	10	137,810	9	69,600	194	1,271,634
1976	21	55,093	0	-	0	--	19	121,100	5	38,040	118	603,565
1977	29	128,705	0	--	0	--	48	174,585	8	35,110	207	1,148,159
1978	29	125,330	0	--	0	--	33	177,660	13	60,006	225	1,195,958
1979	35	169,212	0	--	5	23,100	53	146,366	6	59,050	266	1,045,391
1980	31	166,650	7	1,799	4	18,000	83	197,229	4	30,400	281	930,670
1981	49	119,185	16	79,375	9	41,760	63	137,827	8	69,900	366	1,179,698
1982	36	91,800	10	36,860	7	17,812	80	73,989	7	61,400	342	639,566
1983	13	3,135	3	1,907	11	33,880	43	78,021	2	12,500	244	392,325
1984--												
1st qtr.	5	1,730	0	--	2	10,500	15	10,838	0	--	50	85,507
2d qtr.	4	1,190	2	1,250	5	3,529	10	6,542	2	19,000	61	78,788
3d qtr.												
4th qtr.												
1984 total												

Source--Forest Service, U.S. Department of Agriculture. Pacific Northwest Region includes Oregon and Washington and a small portion of northern California.

[1]July 1, 1974, Colville National Forest in Washington became part of the Pacific Northwest Region.

[2]July 1, 1974, Snoqualmie National Forest was merged with the Mount Baker National Forest.

*GPO 593 - 996 (1984)

Ruderman, Florence K. Production, prices, employment, and trade in Northwest forest industries, second quarter 1984. Resour. Bull. PNW-120. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1984; 61 p.

Provides current information on lumber and plywood production and prices; employment in the forest industries; international trade in logs, lumber, and plywood; volume and average prices of stumpage sold by public agencies; and other related items.

Keywords: Forestry business economics, lumber prices, plywood prices, timber volume, stumpage prices, employment (forest products industries), marketing, (forest products), import/export (forest products), markets (external), economics (forestry business).

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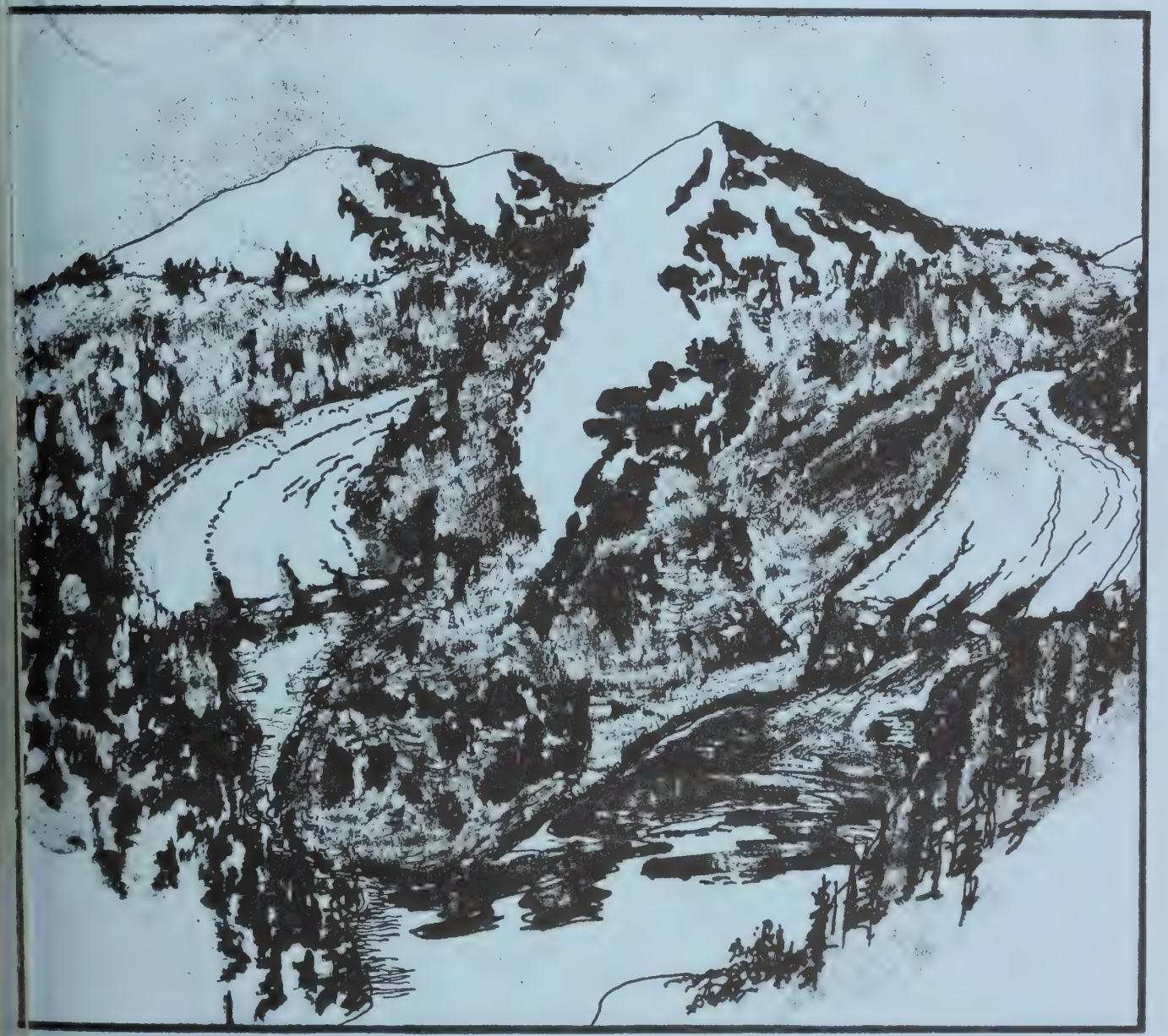
Timber Resource Statistics for the Beluga Block, Susitna River Basin Multiresource Inventory Unit, Alaska, 1980

Gary L. Carroll, Theodore S. Setzer, and Bert R. Mead



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Abstract

Carroll, Gary L.; Setzer, Theodore S.; Mead, Bert R. Timber resource statistics for the Beluga block, Susitna River basin multiresource inventory unit, Alaska, 1980. Resour. Bull. PNW-121. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1985. 48 p.

A multiresource inventory of the Beluga block, Susitna River basin inventory unit, was conducted in 1980. Statistics on forest area, timber volumes, and growth and mortality from this inventory are presented. Timberland area is estimated at 131,740 acres and net growing stock volume, mostly hardwood, is 99.4 million cubic feet. Net annual growth of growing stock is estimated at 1.4 million cubic feet and annual mortality at 773,000 cubic feet.

Keywords: Forest surveys, timber inventory, multiresource inventory, statistics (forest), resources (forest), Alaska (south-central), Alaska (Susitna River basin).

Summary

The Forest Inventory and Analysis (FIA) work unit of the Pacific Northwest Forest and Range Experiment Station conducted its first multiresource inventory for Alaska in the Susitna River basin. Fieldwork began in 1978 in the Willow block. The 3,739,658-acre block, lying north of Cook Inlet, is bounded on the north and west by the Alaska Range. On the east it is bounded by Mount Susitna, Beluga Mountain, the Yenlo Hills, and Kahiltna Glacier.

Statistics on forest area, timber volumes, and net annual growth and mortality are presented from the 1980 multiresource inventory of the Beluga block. Timberland area is estimated at 131,740 acres and net growing stock volume at 99.4 million cubic feet. Net annual growth of growing stock is estimated at 1.4 million cubic feet and annual mortality at 773,000 cubic feet.

Preface

Forest Inventory and Analysis is a nationwide project of the USDA Forest Service authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. Work units of the project, located at Forest Service Experiment Stations, conduct forest resource inventories throughout the 50 States. The Pacific Northwest Forest and Range Experiment Station at Portland, Oregon, is responsible for inventories in Alaska, California, Hawaii, Oregon, and Washington.

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Table 12--Net volume of growing stock by forest type and land class, Beluga block, Susitna unit, Alaska, 1980

Table 13--Net volume of sawtimber by forest type and land class, Beluga block, Susitna unit, Alaska, 1980

Table 14--Net volume of growing stock on timberland by diameter class and forest type, Beluga block, Susitna unit, Alaska, 1980

Table 15--Net volume of sawtimber on timberland by diameter class and forest type, Beluga block, Susitna unit, Alaska, 1980

Highlights 1/
Area

- Gross area of the Beluga block is 3,739,658 acres.

- Forest land area is 648,398 acres, which is equivalent to 17-1/3 percent of the gross area in the block.

- Timberland accounts for 131,740 acres, or 20 percent of all forest land. Timberland is capable of producing 20 cubic fee or more of wood per acre per year.

- White spruce is the predominant forest type, accounting for 379,528 acres and almost 60 percent of the total forest land. The cottonwood type follows with 119,205 acres and about 18 percent of the total forest land. The remaining 22 percent i in the black spruce and birch types.

- The predominant vegetation class on timberland is open forest, deciduous/mixed, old age. This class occupies 81.6 percent of the timberland area, or 34.3 percent of all forest land.

- The predominant vegetation class on all forest land (timberland and other forest land combined) is also open forest, deciduous/mixed, old age.

- Site class 4 land (capable of producing 20-49 cubic feet pe acre per year) supports all of the timberland, but only 20 percent of the total forest land, and averages 754 cubic feet of growing stock volume per acre.

1/ Values presented in this section are estimates and are subject to sampling error.

ventory

- Growing stock volume on timberland is 99.4 million cubic feet, with the majority of it, 78.7 percent, in sawtimber trees.

- Salvable dead sawtimber and poletimber trees contributed 2.3 million cubic feet of wood volume.

- White spruce makes up 64 percent of the growing stock volume and 68 percent of the sawtimber volume. The remaining volume is mostly birch.

- Average softwood growing stock volume per acre of timberland is 482 cubic feet and 2,342 board feet, International 1/4-inch rule. Hardwood growing stock volume is 272 cubic feet and 877 board feet per acre.

- There are an average of 36 trees per acre of sawtimber-sized growing stock on timberland.

- There are an average of 126 trees per acre of growing stock less than sawtimber size.

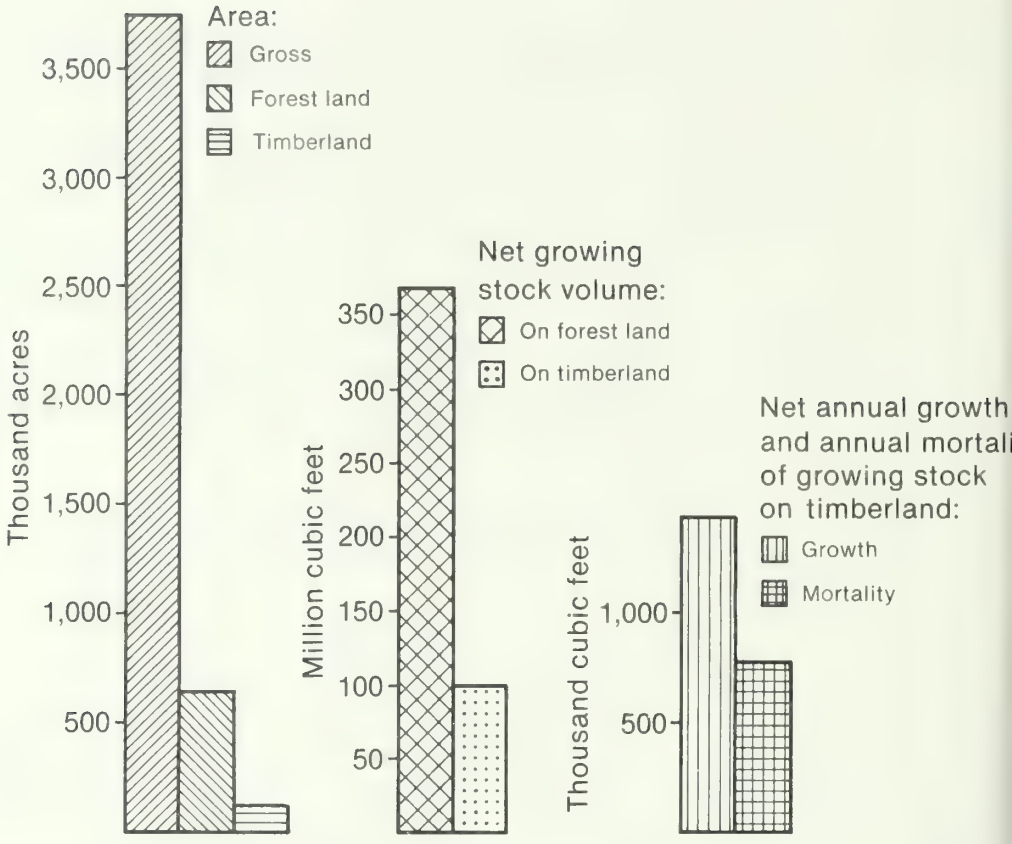
owth

- Net annual growth of growing stock on timberland is more than 1.4 million cubic feet. Of the growing stock, 69 percent, or 1.0 million cubic feet, is in the white spruce type.

ortality

- Annual mortality of growing stock on timberland is 773,000 cubic feet.

Beluga block at a glance



ntroduction

In 1977, the Alaska Forest Inventory and Analysis (FIA) work unit of the USDA Forest Service, Pacific Northwest Forest and Range Experiment Station, joined with other agencies to plan and conduct a multiresource inventory of the Susitna River basin in south-central Alaska. Cooperating agencies were the USDA Forest Service, Alaska Region's State and Private Forestry; USDA Soil Conservation Service; and the State of Alaska, Department of Natural Resources.

The 3,739,658-acre Beluga block is part of the Susitna River basin multiresource inventory unit. The Susitna River basin is bordered on the north and west by the Alaska Range, on the south by Cook Inlet, and on the east by the Copper River plateau (fig. 1). The Beluga block is between 61°2' and 62°56' N. latitude, and 153°23' and 150°45' W. longitude. Major drainages in the block are the Hayes, Skwentna, and Yentna Rivers.

The Beluga block was the third portion of the Susitna unit to be inventoried. Fieldwork was conducted in 1980. Considerable development may occur in the block if expansion of the Beluga coal fields continues. This report deals with the timber resource (fig. 2).

nventory rocedures

Sampling strata for the Beluga block follow. Land cover/ vegetation classes for all the strata except water are detailed on page 13.

Forest and woodland (greater than 10-percent tree crown cover):
- Stratum 1. Closed forest (greater than 50-percent tree crown cover)
- Stratum 2. Open forest (10- to 50-percent tree crown cover)

Nonforest (less than 10-percent tree crown cover):
- Stratum 3. Nonforest
- Stratum 4. Cultural influence
- Stratum 5. Nonvegetated-barren
- Stratum 6. Water

Forest, nonforest:
- Stratum 7. Unclassified.

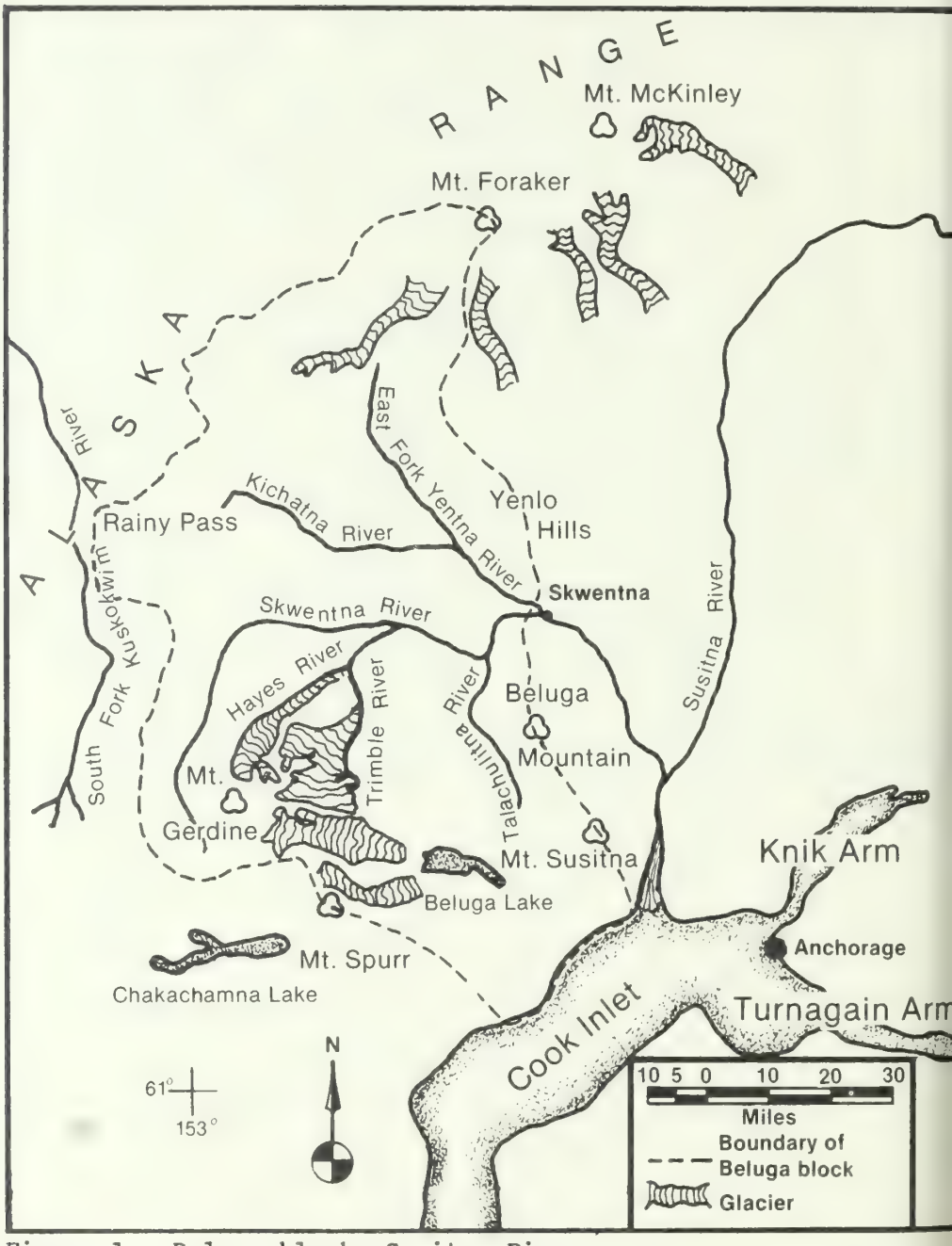


Figure 1.--Beluga block, Susitna River basin.

Figure 2.--The white spruce type predominates on almost three-fourths of the timberland in the Beluga block, occupying sites along stream channels and continuing to elevations of about 1,000 feet.

Vegetation for the study area was mapped according to type on 1:120,000-scale color infrared aerial photography enlarged to approximately 1:60,000. This provided a stratum or polygon map that could be associated with estimates of mean volumes made for each stratum. A double sampling method was used to derive estimates (Bickford 1952).

To be mapped, type polygons had to be at least 5 acres in size. Each polygon was labeled with a primary vegetation type or land class code. Secondary and tertiary labels were added if a polygon contained small inclusions (less than 5 acres) of other vegetation.

Sampling of a representative number of type polygons followed, using a double sampling procedure. Primary aerial photo points were located at 1 000-meter Universal Transverse Mercator (UTM) intersections on 1:63,360-scale quadrangle maps of the U.S. Geological Survey. Next, these points were visually transferred to aerial photos. A sampling stratum for each point was then interpreted and a predominant vegetation type assigned to the usually circular, 5-acre area surrounding each point. Points for ground measurements were located in the same mapped polygons as the associated intersections of the grid.

Field plots were selected by considering type variances, plot costs, and the desired sampling intensity for the Susitna unit as a whole. This meant that types sampled heavily in the Willow and Talkeetna blocks, and which had low variances, were sampled far less intensively in the Beluga block. These vegetation types may therefore have high standard errors in th Beluga block, but the error for the Susitna River basin as a whole was minimized by employing this procedure.

From the photo points, 116 were selected for ground observatio and measurements. Sample points were established in 10-point clusters and measured within each 5-acre location. These measurements are the basis for the estimates given in this paper. 2/

On forested points, measurements of trees larger than 5 inches in d.b.h. were made on variable radius plots using a nonmetric prism with 40 basal area factor. Trees less than 5 inches wer measured on 1/300-acre, circular, fixed radius plots.

2/ Mead, Bert R. Field procedures for the cooperative vegetation inventory of the Susitna River basin, Alaska, Beluga block. Anchorage: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station, Forestry Sciences Laboratory; 1980. 152 p. Unpublished report.

Reliability of Inventory Data

Area and volume statistics reported here are estimates based on sampling and, therefore, are subject to sampling error. The reliability of inventory is expressed in terms of relative sampling errors at the 68-percent confidence level:

	Design sampling error 3/	Sampling error achieved	Sampling error of the total estimate
		Percent	
Timberland area:			
Per million acres	3.0	10.1	
For the total 131,740 acres			±27.7
Other forest land area:			
Per million acres	10.0	9.8	
For the total 516,658 acres			±13.7
Net growing stock volume:			
Per billion cubic feet	10.0	9.7	
For the total 99.373 million ft^3			±30.7
Net growth of growing stock:			
Per billion cubic feet	10.0	2.5	
For the total 1.439 million ft^3			±65.7

The estimate of net growing stock volume for the Beluga block is 99.373 million cubic feet, ±30.7 percent, yielding 68-percent confidence limits of 129.881 and 68.865 million cubic feet. A 68-percent confidence level means that if repeated samples were taken of this population, the total volume would be between 129.881 and 68.865 million cubic feet 68 percent of the time.

3/Forest Service Handbook 4813.1, Chapter 10, Operational Procedures 11.1--1; 1967.

Design sampling error for other forest land area, cubic-foot ne growing stock volume, and net growth (all 10 percent) were met. Design sampling error for timberland area (3 percent), was not met.

Terminology 4/

Acceptable trees--Trees meeting the specifications for growing stock but not qualifying as desirable trees.

Area condition class--Area condition class provides a general stratification of timberland by management opportunity class as indicated by the stocking or area controlled by tree and cover class.

Area condition class codes--

10 Areas 100 percent or more stocked with desirable trees and not overstocked. Stands in this category generally do not require any treatment at present to maintain high level of growth.

20 Areas 100 percent or more stocked with desirable trees and overstocked. Stands in this category need a treatment such as thinning to produce maximum levels of growth of desirable trees.

30 Areas 60 to 100 percent stocked with desirable trees, and with less than 30 percent of the area controlled by acceptable growing stock trees, inhibiting vegetation, slash, or nonstockable conditions. Stands in this category generally have conditions favorable for natural improvement of stocking without special treatment.

40 Areas 60 to 100 percent stocked with desirable trees and with 30 percent or more of the area controlled by other trees (or overstocked areas) or conditions that ordinarily prevent occupancy by desirable trees. Stands in this category generally have little prospect for improvement in desirable tree stocking without special treatment such as thinning or cull tree removal.

50 Areas less than 60 percent stocked with desirable trees but with 100-percent or more stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable tree stocking without special treatment. Stands almost to rotation age would usually not be treated.

4/Terminology is from the manual of field procedures for the Susitna River basin inventory (see footnote 2), and Forest Service Handbook 4813.1 (see footnote 3).

60 Areas less than 60 percent stocked with desirable trees but with 60- to 100-percent stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable tree stocking without special treatment such as timber stand improvement or planting.

70 Areas less than 60 percent stocked with desirable trees and with less than 60-percent stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable trees or growing stock stocking without treatment such as site preparation or regeneration.

Basal area--A measure of square feet of space occupied by the stem of a tree at diameter breast height.

Census water--Streams, sloughs, estuaries, and canals more than one-eighth mile wide; and lakes, reservoirs, and ponds of more than 40 acres.

Commercial species--Tree species presently or potentially suitable for industrial wood products.

Cull material--Portions of a tree unusable for industrial products because of rot, form, or other defect.

Cull trees--Live trees of sawtimber or poletimber size that are not merchantable for saw logs now nor are they likely to become merchantable because of defect, rot, or species.

D.b.h.--Diameter at breast height, a point 4-1/2 feet above the ground on the uphill side of a tree, where, on a normally formed tree, the diameter is measured.

Desirable trees--Growing stock trees with no serious defects in quality limiting present or prospective use, relatively high vigor, and hosting no pathogens that could result in death or serious deterioration before rotation age. They include the type of trees forest managers aim to grow; that is, the trees left in silvicultural cutting or favored in cultural operations.

Diameter class--A classification of trees based on diameter of the tree outside the bark, measured at breast height (4-1/2 feet above the ground). Two-inch diameter classes are commonly used by FIA, with the even inch the approximate midpoint for a class.

Forest land--Land at least 16.7 percent stocked by forest trees of any size, or land formerly having such tree cover, and not currently developed for nonforest use.

Forest trees--Woody plants having a well-developed stem and usually more than 12 feet tall at maturity.

Forest types--A classification of forest land based on the species forming a plurality of the live tree stocking.

Black spruce--Forests in which a plurality of the stand is black spruce. Black spruce most often occurs in nearly pure stands but can be found mixed with tamarack, white spruce, paper birch, and aspen. Black spruce is fairly characteristic of poorer forest land.

White spruce--Forests in which a plurality of the stand is white spruce. Common associates include paper birch and balsam poplar, and occasionally black spruce or quaking aspen.

Balsam poplar--Forests in which a plurality of the stand is balsam poplar. South of the Alaska Range, balsam poplar may be replaced by black cottonwood or hybrids between the two. As the poplar ages, it is often replaced by white spruce; however, it is usually found as a nearly pure type with only an occasional associate of white spruce or paper birch.

Black cottonwood--Forests in which a plurality of the stand is black cottonwood. Black cottonwood is found south of the Alaska Range in pure stands along major rivers. It hybridizes extensively with balsam poplar where their ranges overlap, and in this overlap area types are not easily distinguished by species but are usually reported as cottonwood/poplar. Black cottonwood stands are replaced by white spruce as they age and the pure stands contain only an occasional white spruce or paper birch.

Paper birch--Forests in which a plurality of the stand is paper birch. Paper birch can occur in pure stands but is more often mixed with white spruce, quaking aspen, or black spruce.

Quaking aspen--Forests in which a plurality of the stand is aspen. Aspen is usually found as a pure type following fire and a willow stage of succession. As the aspen ages, it is usually replaced by spruce, except on very dry sites where it may remain as a pure type. Common associates include black spruce and white spruce and occasionally paper birch.

Gross growth--Annual increase in net volume of trees that have not been cut or have not died.

Growing stock trees--Sawtimber trees, poletimber trees, saplings, and seedlings; that is, all live trees except cull trees.

Growing stock volume--The net cubic-foot volume of sound wood in the bole of growing stock trees 5.0 inches in d.b.h. and larger, from stump to a minimum 4.0-inch top outside the bark or to the point where the central stem breaks into limbs.

Hardwoods--Dicotyledonous trees, usually broadleaved and deciduous. Hardwood species in interior Alaska are balsam poplar, black cottonwood, paper birch, and quaking aspen.

International 1/4-inch rule--A log rule using diameter and length to give yields of logs in board feet of lumber produced when 1-inch boards are cut. It assumes one-half inch of taper per 4 feet of log and a saw kerf of one-fourth inch.

Land area--Area reported as land by the Bureau of the Census. Total land area includes dry land and land temporarily or partially covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than 120 feet wide; and lakes, reservoirs, and ponds less than 1 acre in area.

Land class--A classification of land by the predominant vegetative cover on it, such as forest land. The minimum size area for classification is 1 acre.

Mean annual increment (MAI)--A measure of the volume of wood, in cubic feet, produced on 1 acre during 1 year. FIA minimum standard for timberland is the ability to produce at least 20 cubic feet per acre per year.

Mortality--Number of or the sound wood volume from live trees dying from natural causes during a specified period (5 years).

Net annual growth of growing stock--The annual change in volume of sound wood in live sawtimber and poletimber trees.

Net annual growth of sawtimber--The annual change in net board-foot volume of live sawtimber trees.

Net volume--The gross volume of a tree less deductions for rot, sweep, or other defect affecting product use.

Non-Census water--Streams, sloughs, estuaries, and canals between 120 feet and one-eighth mile wide; and lakes, reservoirs, and ponds between 1 and 40 acres in area.

Noncommercial species--Tree species of typically small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial wood products.

Nonforest land--Land that does not qualify as forest land. Includes land that has never supported forests and lands formerly forested where forest use is precluded by development for nonforest uses, such as crops, improved pasture, residential areas, and city parks. Also includes improved roads and certain areas of water classified by the Bureau of Census as land. Unimproved roads, streams, canals, and nonforest strips in forest areas must be more than 120 feet wide, and clearings in forest areas must be more than 1 acre to qualify as nonforest land.

Nonstockable land--Areas of forest land not capable of supporting forest growth because of rock or water.

Nonstocked areas--Timberland less than 16.7 percent stocked with growing stock trees.

Other forest land--Unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions (producing less than 20 cubic feet per acre per year). This includes sterile or poorly drained forest land, subalpine forests, and steep, rocky areas where topographic conditions are likely to prevent indefinitely management for timber production. Also included is productive forest land withdrawn from commercial timber use by statute or administrative regulation.

Other forest land, inoperable--Other forest land with a gross volume less than 800 cubic feet per acre.

Other forest land, operable--Other forest land with a gross volume of 800 cubic feet or more per acre.

Overstocked areas--Areas where growth of trees is substantially reduced by excessive numbers of trees.

Poletimber stands--Stands at least 16.7 percent stocked with growing stock trees, with half or more of this stocking in poletimber and sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Poletimber trees--Trees 5.0 to 8.9 inches in d.b.h. for softwoods and 5.0 to 10.9 inches in d.b.h. for hardwoods.

Rotten trees--Live trees of 5.0 inches in d.b.h. and larger that do not contain a saw log now and are not likely to, primarily because of rot.

Rough trees--Live trees 5.0 inches in d.b.h. and larger that do not contain a saw log now and are not likely to, primarily because of roughness, poor form, or because they are a noncommercial species.

Salvable dead trees--Standing dead trees that are considered currently or potentially merchantable by regional standards. A poletimber tree must be more than one-half sound, a sawtimber tree more than one-third sound (board measure).

Sapling trees--Trees 1.0 to 4.9 inches in d.b.h.

Saw log--A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum small-end diameter of 6 inches inside the bark for softwoods and 8 inches for hardwoods.

Saw-log portion--The bole of sawtimber trees between the stump and the saw-log top.

Saw-log top--The point on the bole of sawtimber trees above which a saw log cannot be produced. The minimum top diameter is 7.0 inches outside the bark for softwoods and 9.0 inches outside the bark for hardwoods.

Sawtimber stands--Stands at least 16.7 percent stocked with growing stock trees, with half or more of this stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to that of poletimber.

Sawtimber trees--Trees at least 9.0 inches in d.b.h. for softwoods and 11.0 inches in d.b.h. for hardwoods.

Sawtimber volume--The volume of sawtimber trees measured in board feet. Net volume equals gross volume less deductions for rot, sweep, crook, and other defects that affect use for lumber.

Seedling--An established tree less than 1.0 inch in d.b.h.

Seedling and sapling stands--Stands at least 16.7 percent stocked with growing stock trees and with seedlings and/or saplings comprising more than half of this stocking.

Site class--A classification of forest land based on its capacity to grow crops of industrial wood. Site classifications are based on the mean annual cubic-foot growth of growing stock attainable in fully stocked stands at culmination of mean annual increment.

Softwoods--Coniferous trees, usually evergreen with needles or scalelike leaves. Species in interior Alaska are white spruce, black spruce, and tamarack.

Stand size class--A classification of forest land based on the predominant size of growing stock present: sawtimber, poletimber, or seedlings and saplings.

Stand volume class--A classification of forest land based on cubic-foot or board-foot timber volume per acre.

Stocking--The degree of occupancy of land by trees, measured by basal area and/or the number of trees in a stand by size or age and spacing, compared with the basal area or number of trees required to fully utilize the growth potential of the land; that is, the stocking standard.

Timber class--A classification of trees based on characteristics of quality such as vigor, size of limbs and knots, and presence or absence of rot. Classes include growing stock; desirable and acceptable trees; and rough, rotten, and salvable dead trees.

Timberland--Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization. Areas qualifying as timberland could produce more than 20 cubic feet per acre per year of industrial wood under management.

Tree size class--A classification of trees based on the diameter of the tree at breast height.

Type map--A map showing classifications of vegetated and barren land, based on interpretation of aerial photographs. Like areas are delineated, labeled, and referred to as polygons.

Upper-stem portion--That part of the main stem or fork of sawtimber trees above the saw-log top to a minimum top diameter of 4.0 inches outside the bark or to the point where the main stem or fork breaks into limbs.

UTM--Universal transverse mercator grid system is a 1000-meter grid named for the map projection on which it is based. It consists of 60 grid zones, each 6° longitude in width. The origin of the grid zone lies at the intersection of the central meridian, which is a straight north-south line passing through Greenwich, England, and the equator, a straight east-west line. Grid lines within a zone are parallel and delineated on USGS quadrangle maps by blue tick marks on map margins.

Vegetation class--A classification of forest and nonforest vegetation based on species, canopy coverage, and height and/or age of vegetation. A classification system unique to FIA was developed for the Susitna River basin multiresource inventory. Classes are defined in the following section.

Water--See Census water and non-Census water.

egetation/Land over Classes

I. Forest and woodland (greater than 10-percent crown cover)

A. Closed coniferous forest (greater than 50-percent crown cover)

1. Short stands-white spruce. Main canopy usually less than 30 feet tall. Usually found at higher elevations as isolated pockets in areas dominated by alder; grassland; or open, mixed stands.

2. Tall stands-white spruce. Main canopy usually greater than 30 feet tall. Usually found at lower elevations on better sites; almost always found mixed with old and decadent deciduous trees (very rarely found as a pure type in Susitna River basin).

3. Short stands-black spruce. Main canopy usually less than 30 feet tall. Generally found on wet and/or cold (poor) sites; may be found mixed with birch of poor quality but usually found as a pure type forming islands and stringers in bog areas or transition zones between bog and forest areas. Understory is usually a thick moss and/or sedge mat.

4. Tall stands-black spruce. Main canopy usually greater than 30 feet tall. Can usually be identified as a fire-formed stand, on relatively good sites. Stands are remarkably pure, and the stocking density is usually quite high; may be found mixed with very scattered birch.

B. Closed deciduous forest (greater than 50-percent crown cover)

1. Young stands-deciduous/mixed. Canopy is usually very finely textured when viewed from above; openings in stands are very rare. Composed mostly of birch and/or aspen. This type is very rarely mixed with other types except when found as a remnant condition in burned areas. Spruce is not usually evident as a component of the overstory in these young stands. Stands are 0-40 years old.

2. Medium age stands-deciduous/mixed. Canopy is usually fine textured when viewed from above; openings may be fairly common but are usually small. Vegetation elements of this type include birch, spruce, and aspen. Birch is usually found as a main component of this type, but percent composition may vary greatly depending on a number of factors: as the type increases in age, the percentage of white spruce as a crown component usually increases with the amount of understory and number of stand openings. Stands are 40-100 years old.

3. Old stands-deciduous/mixed. Canopy is usually somewhat coarse textured when viewed from above; openings are common and may appear in nearly half the stand. Canopy may also appear smooth, but openings appear as definite holes in the crown. Deciduous trees in these old stands are usually decadent. Spruce is often becoming the dominant species. The understory is usually visible from above and most commonly includes *Calamagrostis* sp. and *Alnus* sp. Stands are always older than 100 years.

4. Young stands-cottonwood. Most commonly found on new islands, downstream ends of old islands, and point bars of rivers. Cottonwood or poplar is usually mixed with large alder and/or willow; understory is sparse to nonexistent. Stands are 0-40 years old.

5. Medium age stands-cottonwood. Most commonly found within a mile of a river (alluvial soils). Stands are usually pure cottonwood or poplar; spacing is even and crown closure approaches 100 percent. Understory in the Susitna River basin is dominated by alder and devil's club. Stands are 40-100 years old.

6. Old stands-cottonwood. Most commonly found near rivers (alluvial soils). Stands may be mixed with young white spruce. Cottonwood trees are extremely large (30-40 inches in diameter) and decadent (larger trees may be only shells). Stands appear somewhat clumpy because of openings. Understory includes large quantities of alder, devil's club, and willow. Stands are older than 100 years.

C. Open coniferous forest (10- to 50-percent crown cover)

1. Short stands-white spruce. Usually found at higher elevations as a transition type between closed forest and high elevation, nonforest areas. Usually found mixed with vegetation elements of the higher elevation type: if the higher elevation type is a mixture of alder and grass, the open white spruce transition type will normally be forming a complex type with alder and grass. Trees are shorter than 30 feet.

2. Tall stands-white spruce. Same as short stands of white spruce normally found at lower elevations or on better sites. Commonly found in creek bottoms mixed with alder/willow and grass. Trees are taller than 30 feet.

3. Short stands-black spruce. Found in association with bog types. Black spruce trees are usually of very poor form. Site is either wet or cold or both. Trees are usually shorter than 15 feet.

D. Open deciduous forest (10- to 50-percent crown cover)

1. Medium age stands-deciduous/mixed. Similar to short stands of white spruce except normally found at lower elevations (as elevation increases, so does proportion of spruce in mixed types). Although birch/aspen stands are not usually found as a transition type between forest and high elevation, nonforest areas, they are often found just below areas of open, short white spruce. Stands are 0-40 years old.

2. Old stands-deciduous/mixed. Found in same general location as open, tall stands of white spruce. Found in association with grass and alder. Birch is usually found growing in very small, tight clumps. Spruce are usually found to have an open-grown form and are normally much younger than the hardwood component of the type.

3. Medium age stands-cottonwood. Usually found at tree line just above elevational limit of open white spruce. Found in pockets among low shrubs.

4. Old stands-cottonwood. Two elevational phases of this type seem to occur. The high elevation phase, consisting of balsam poplar, may be found mixed with streamside alder/willow along flowing water on high elevation flats. The low elevation phase, consisting of cottonwood, may be found on major river flood plains growing with a confusing mixture of other types such as open spruce, open birch, alder, and grass.

II. Nonforest (0- to 10-percent crown cover)

A. Tall shrub

1. Alder. This type is dominated by tall (10-15 feet) alder growing in dense thickets with grasses, ferns, and a great variety of forbs growing in the understory. Devil's club can be found as a dominant understory to the alder on wetter and steeper sites. Devil's club will normally exclude other understory vegetation. The type is found at or above tree line.

2. Alder willow (streamside vegetation). This type is dominated by a mixture of very large alder and willow and is normally found on frequently flooded ground such as new islands and point bars. Understory is sparse but may include *Equisetum* and *Calamagrostis* sp. This type is often found mixed with young, open cottonwood; in younger stands the cottonwood is almost indistinguishable from the willow and alder.

B. Low shrub (willow-resin birch)

This type is dominated by either willow or resin birch or a combination thereof. The type is often found in sheltered areas at high elevations such as draws in mountainous terrain. This type is found at and above the transition between tall shrubland and tundra.

C. Grassland (*Calamagrostis*)

This type is dominated by *Calamagrostis* 3-6 feet tall. Fireweed and various ferns are sometimes common. This type is most often found as an understory in the more open forest types and woodland areas where it is commonly associated with alder patches; it can also be found unassociated with other types along small streams.

D. Tundra

1. Sedge-grass tundra. This type is found above tree line on relatively flat, wet areas. Vegetation consists almost entirely of various wet sedges.

2. Herbaceous tundra. This type is found above tree line and is almost always found mixed with and above shrub tundra. The variety of species found is immense, consisting mainly of various grasses and forbs. Soil varies in depth and may be intermixed with rock outcroppings. Vegetation may not be continuous.

3. Shrub tundra. This type is dominated by dwarf shrub birch and ericaceous shrubs along with various short grasses and a large number of forbs. This type is almost always found mixed with and below herbaceous tundra. Density of the shrubs varies considerably and may often appear quite patchy.

4. Mat and cushion tundra. This type is dominated by such plants as dryas, crowberry, bearberry, sedge, grass, lichens, and low-growing forbs. Climatic conditions are extreme at the elevation where this type is found. Vegetation cover may be complete (closed mat cushion) or relatively sparse (scattered mat cushion) with a large percentage of the vegetation being lichens. This type is often mixed with rock.

E. Saltwater wetlands

1. Grassland. *Elymus*-dominated grassland in areas of tidal influence. Usually found at edge of normal high water in sandy soil, where the shoreline gradient is relatively steep, and as a belt of grass along the shore.

2. Low shrub. *Myrica*-dominated shrubland located on tidal flats. Water level is usually fluctuating seasonally. In areas that are more continuously wet, sedge replaces *Myrica* sp.

3. Tidal marsh. Usually found in areas with many shallow lakes and little topographic relief (within tidal influence). Vegetation is dominated by sedges. Woody plants may occur on the drier sedge and peat ridges that are common to this type.

F. Fresh water wetlands

1. Sphagnum bog. Cover is dominated by varying amounts of sedge, *Equisetum* and moss (especially *Sphagnum)*. This type is usually found as a floating mat over several feet of water or as a thick mat directly over saturated or frozen soil. Shrubs and stunted trees (if present) may be found on drier peat ridges. This type is similar to tidal marsh except that shallow lakes are less common, the peat ridges form a more continuous and regular pattern and the type is found inland beyond tidal reach. Usually found as a pure type.

2. Sphagnum/shrub bog. Vegetation of this type is dominated by a thick moss mat (*Sphagnum*) and/or sedge tussocks. Grass, ericaceous shrubs, *Salix*, blueberry, and cranberry may also be present. Ground water level usually varies seasonally, but this type is usually not as wet as a *Sphagnum* bog. Usually mixed with open stands of short black spruce. Many other types may also be found in close association with this type; they are usually found on glacial moraines and eskers within the bog area.

III. Cultural influence

May be broadly defined as land that has been obviously affected by human activity. Includes agricultural land, urban areas, and land developed to support or provide services to agricultural and urban land. This "type" may be vegetated, but vegetation that is present may not be natural in either composition or spacing.

IV. Nonvegetated-barren

A. Mud flat. Confined to tidal areas (for example, Cook Inlet) and the mouths of major rivers. This "type" may appear vegetated on infrared and normal color photography or from the air, but the "vegetation" is usually algal blooms, and/or other sea plants. Mud flats are usually well patterned with ripple marks or water drainage patterns, are normally submersed during high tide, and may be used as resting and feeding areas by waterfowl.

B. Rock. Includes exposed bedrock and scree commonly found with mat and cushion tundra at high elevations. This "type" is also used to describe large landslides, fresh moraines, and other natural barren areas.

C. Snow field. High-elevation, snow accumulation areas. Appears to be a permanent or nearly year-round part of the landscape. May be found as small pockets on slopes protected from the sun, on lee slopes, or in gulleys. Can be found over bare ground or mat and cushion tundra.

D. Glacier. Includes both icefields and glaciers. Usually found covering several square miles. Considered a permanent part of the landscape. This "type" covers much larger areas than does the snowfield type; crevasses, moraines, and other glacial features are usually present.

V. Unclassified

Locations or "points" that could not be classified because of cloud cover or deep shadows on the aerial photographs.

Names of Trees

Common name	Scientific name 5/
Softwoods:	
Black spruce	*Picea mariana* (Mill.) B.S.P.
White spruce	*Picea glauca* (Moench) Voss
Hardwoods:	
Balsam poplar	*Populus balsamifera* L.
Black cottonwood	*Populus trichocarpa* Torr. and Gra
Paper birch	*Betula papyrifera* Marsh
Quaking aspen	*Populus tremuloides* Michx.

5/Scientific names are according to Viereck and Little (1972).

Tables

Estimates in this report are developed from statistically base samples and therefore are subject to sampling error. Sampling errors for estimates of various sizes are presented in the section "Reliability of Inventory Data."

TABLE 1--AREA BY VEGETATION/LAND COVER CLASS AND LAND CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

VEGETATION/ LAND COVER CLASS	LAND CLASS									
	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	NON-CENSUS WATER	TOTAL NONFOREST	CENSUS WATER	UNCLASSIFIED	ALL CLASSES
					ACRES					
CLOSED CONIFEROUS FOREST	10,541	10,541	31,624	52,707	--	--	--	--	--	52,707
CLOSED DECIDUOUS FOREST	--	52,707	70,679	123,386	--	--	--	--	--	123,386
OPEN FOREST	121,199	65,335	285,772	472,306	--	--	--	--	--	472,306
SHRUBLAND	--	--	--	--	612,481	--	612,481	--	--	612,481
GRASSLAND	--	--	--	--	85,539	--	85,539	--	--	85,539
TUNDRA	--	--	--	--	285,134	--	285,134	--	--	285,134
BOG	--	--	--	--	384,373	--	384,373	--	--	384,373
CULTURAL INFLUENCE	--	--	--	--	9,060	--	9,060	--	--	9,060
NONVEGETATED-BARREN	--	--	--	--	985,313	--	985,313	--	--	985,313
WATER	--	--	--	--	--	72,936	72,936	31,258	--	104,194
UNCLASSIFIED	--	--	--	--	--	--	--	--	625,164	625,164
ALL CLASSES	131,740	128,583	388,075	648,398	2,361,902	72,936	2,434,837	31,258	625,164	3,739,658

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data collected.

TABLE 2--AREA OF FOREST LAND BY VEGETATION/LAND COVER CLASS, STAND SIZE CLASS, AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

VEGETATION/ LAND COVER CLASS AND STAND SIZE CLASS	SITE CLASS (CUBIC FEET) 1/						ALL CLASSES
	1-9	10-14	15-19	20-49	50-84	UNCLASSIFIED	
				ACRES			
CLOSED CONIFEROUS FOREST, TALL STANDS-WHITE SPRUCE:							
SAWTIMBER	--	--	--	10,541	--	--	10,541
POLETIMBER	--	10,541	--	--	--	--	10,541
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	10,541	--	10,541	--	--	21,083
CLOSED CONIFEROUS FOREST, SHORT STANDS-BLACK SPRUCE:							
SAWTIMBER	--	--	--	--	--	--	--
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	21,083	--	--	--	--	--	21,083
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	21,083	--	--	--	--	--	21,083
CLOSED CONIFEROUS FOREST, TALL STANDS-BLACK SPRUCE:							
SAWTIMBER	--	--	--	--	--	--	--
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	10,541	--	--	--	--	--	10,541
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	10,541	--	--	--	--	--	10,541
CLOSED DECIDUOUS FOREST, YOUNG STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	10,541	--	--	--	--	--	10,541
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	10,541	--	--	--	--	--	10,541
CLOSED DECIDUOUS FOREST, MEDIUM AGE STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	--	--	21,083	--	--	--	21,083
POLETIMBER	--	--	10,541	--	--	--	10,541
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	--	31,624	--	--	--	31,624
CLOSED DECIDUOUS FOREST, OLD STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	--	10,541	--	--	--	--	10,541
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	10,541	--	--	--	--	10,541
NONSTOCKED AREAS	--	10,541	--	--	--	--	10,541
TOTAL	--	31,624	--	--	--	--	31,624
CLOSED DECIDUOUS FOREST, MEDIUM AGE STANDS-COTTONWOOD:							
SAWTIMBER	--	--	--	--	--	--	--
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	28,513	--	--	--	--	--	28,513
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	28,513	--	--	--	--	--	28,513
CLOSED DECIDUOUS FOREST, OLD STANDS-COTTONWOOD:							
SAWTIMBER	--	10,541	10,541	--	--	--	21,083
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	10,541	10,541	--	--	--	21,083

TABLE 2--AREA OF FOREST LAND BY VEGETATION/LAND COVER CLASS, STAND SIZE CLASS, AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980 (continued)

VEGETATION/ LAND COVER CLASS AND STAND SIZE CLASS	SITE CLASS (CUBIC FEET) 1/						
	1-9	10-14	15-19	20-49	50-84	UNCLASSIFIED	ALL CLASSES
				ACRES			
OPEN CONIFEROUS FOREST, SHORT STANDS-WHITE SPRUCE:							
SAWTIMBER	28,513	--	--	--	--	--	28,513
POLETIMBER	--	--	13,698	--	--	--	13,698
SEEDLING AND SAPLING	13,698	--	--	--	--	--	13,698
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	42,212	--	13,698	--	--	--	55,910
OPEN CONIFEROUS FOREST, TALL STANDS-WHITE SPRUCE:							
SAWTIMBER	13,698	13,698	10,541	--	--	--	37,938
POLETIMBER	--	10,541	--	--	--	--	10,541
SEEDLING AND SAPLING	--	--	--	--	--	--	13,698
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	13,698	37,938	10,541	--	--	--	62,178
OPEN CONIFEROUS FOREST, SHORT STANDS-BLACK SPRUCE:							
SAWTIMBER	--	--	--	--	--	--	--
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	48,480	--	--	--	--	--	48,480
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	48,480	--	--	--	--	--	48,480
OPEN DECIDUOUS FOREST, MEDIUM AGE STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	--	--	13,698	13,698	--	--	27,397
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	--	13,698	13,698	--	--	27,397
OPEN DECIDUOUS FOREST, OLD STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	13,698	24,240	52,753	93,802	--	--	184,493
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	--	24,240	13,698	--	--	37,938
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	13,698	24,240	76,993	107,500	--	--	222,431
OPEN DECIDUOUS FOREST, MEDIUM AGE STANDS-COTTONWOOD:							
SAWTIMBER	--	--	--	--	--	--	--
POLETIMBER	--	13,698	--	--	--	--	13,698
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	13,698	--	--	--	--	13,698
OPEN DECIDUOUS FOREST, OLD STANDS-COTTONWOOD:							
SAWTIMBER	--	42,212	--	--	--	--	42,212
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	42,212	--	--	--	--	42,212
ALL CLASSES	188,767	170,795	157,096	131,740	--	--	648,398

Estimates are subject to sampling error.

Totals may be off because of roundings.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 3--AREA OF FOREST LAND BY FOREST TYPE, STAND SIZE CLASS, AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE AND STAND SIZE CLASS	SITE CLASS (CUBIC FEET) 1/ 1-9	10-14	15-19	20-49	50-84	UNCLASSIFIED	ALL CLASSES
				ACRES			
BLACK SPRUCE:							
SAWTIMBER	--	--	--	--	--	--	--
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	80,104	10,541	--	--	--	--	90,645
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	80,104	10,541	--	--	--	--	90,645
WHITE SPRUCE:							
SAWTIMBER	56,452	48,480	60,138	83,261	--	--	258,329
POLETIMBER	--	21,083	24,240	--	--	--	45,322
SEEDLING AND SAPLING	13,698	13,698	24,240	13,698	--	--	65,335
NONSTOCKED AREAS	--	10,541	--	--	--	--	10,541
TOTAL	80,150	93,802	108,617	96,959	--	--	379,528
COTTONWOOD:							
SAWTIMBER	--	52,753	24,240	--	--	--	76,993
POLETIMBER	--	13,698	--	--	--	--	13,698
SEEDLING AND SAPLING	28,513	--	--	--	--	--	28,513
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	28,513	66,452	24,240	--	--	--	119,205
BIRCH:							
SAWTIMBER	--	--	24,240	34,781	--	--	59,021
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	--	24,240	34,781	--	--	59,021
ALL TYPES AND CLASSES	188,767	170,795	157,096	131,740	--	--	648,398

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 4--AREA OF TIMBERLAND BY CUBIC-FOOT STAND VOLUME CLASS AND FOREST TYPE, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

STAND VOLUME CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
CUBIC FEET PER ACRE			*ACRES*			
0-299	--	--	--	--	--	--
300-799	--	27,397	--	--	--	27,397
800-1,499	--	24,240	--	--	24,240	48,480
1,500-2,199	--	34,781	--	--	10,541	45,322
2,200 AND OVER	--	10,541	--	--	--	10,541
ALL CLASSES	--	96,959	--	--	34,781	131,740

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 5--AREA OF TIMBERLAND BY STAND VOLUME CLASS, INTERNATIONAL 1/4-INCH RULE, AND FOREST TYPE, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

STAND VOLUME CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
BOARD FEET, INTERNATIONAL 1/4-INCH RULE			*ACRES*			
0-299	--	--	--	--	--	--
300-799	--	--	--	--	--	--
800-1,499	--	13,698	--	--	--	13,698
1,500-2,199	--	13,698	--	--	24,240	37,938
2,200-2,999	--	10,541	--	--	--	10,541
3,000-4,999	--	48,480	--	--	10,541	59,021
5,000-6,999	--	10,541	--	--	--	10,541
7,000 AND OVER	--	--	--	--	--	--
ALL CLASSES	--	96,959	--	--	34,781	131,740

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 6--AREA OF TIMBERLAND BY CUBIC-FOOT STAND VOLUME CLASS AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

STAND VOLUME CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
CUBIC FEET		*ACRES*		
0-299	27,397	--	--	27,397
300-799	48,480	--	--	48,480
800-1,499	45,323	--	--	45,323
1,500-2,199	10,541	--	--	10,541
2,200 AND OVER	--	--	--	--
ALL CLASSES	131,740	--	--	131,740

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 7--AREA OF TIMBERLAND BY AREA CONDITION CLASS AND FOREST TYPE, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

AREA CONDITION CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
			ACRES			
10 and 20	--	--	--	--	--	--
30 and 40	--	10,541	--	--	--	10,541
50	--	10,541	--	--	10,541	21,083
60	--	24,240	--	--	10,541	34,781
70	--	51,637	--	--	13,698	65,335
ALL CLASSES	--	96,959	--	--	34,781	131,740

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 8--NUMBER OF GROWING STOCK TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
INCHES AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	5,439	316	5,755	1,644	--	--	--	1,644	7,399
3.0-4.9	2,403	632	3,036	--	--	--	--	--	3,036
5.0-6.9	3,013	--	3,013	208	--	--	--	208	3,221
7.0-8.9	1,198	--	1,198	1,182	--	--	--	1,182	2,380
9.0-10.9	1,880	--	1,880	581	--	--	--	581	2,461
11.0-12.9	827	--	827	372	--	--	49	421	1,249
13.0-14.9	604	--	604	324	--	--	--	324	928
15.0-16.9	131	--	131	190	--	--	--	190	322
17.0-18.9	113	--	113	85	--	--	54	169	282
19.0-20.9	--	--	--	25	--	--	39	64	64
21.0-22.9	--	--	--	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	--	--	12	12	12
ALL CLASSES	15,609	949	16,557	4,610	--	--	184	4,794	21,351

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 9--NUMBER OF ROUGH TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
INCHES AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	949	316	1,265	--	--	--	--	--	1,265
3.0-4.9	949	--	949	--	--	--	--	--	949
5.0-6.9	--	--	--	309	--	--	--	309	309
7.0-8.9	205	--	205	--	--	--	--	--	205
9.0-10.9	--	--	--	65	--	--	--	65	65
11.0-12.9	--	--	--	--	--	--	--	--	--
13.0-14.9	--	--	--	--	--	--	--	--	--
15.0-16.9	--	--	--	--	--	--	--	--	--
17.0-18.9	--	--	--	--	--	--	--	--	--
19.0-20.9	--	--	--	--	--	--	--	--	--
21.0-22.9	--	--	--	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	--	--	--	--	--
ALL CLASSES	2,103	316	2,419	374	--	--	--	374	2,793

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 10--NUMBER OF ROTTEN TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
INCHES AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	--	--	--	--	--	--	--	--	--
3.0-4.9	--	--	--	--	--	--	--	--	--
5.0-6.9	--	--	--	--	--	--	--	--	--
7.0-8.9	--	--	--	--	--	--	--	--	--
9.0-10.9	--	--	--	168	--	--	--	168	168
11.0-12.9	--	--	--	--	--	--	--	--	--
13.0-14.9	--	--	--	--	--	--	--	--	--
15.0-16.9	--	--	--	--	--	--	--	--	--
17.0-18.9	--	--	--	--	--	--	--	--	--
19.0-20.9	--	--	--	--	--	--	--	--	--
21.0-22.9	--	--	--	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	--	--	--	--	--
ALL CLASSES	--	--	--	168	--	--	--	168	168

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 11--NUMBER OF LIVE TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
INCHES AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	6,387	632	7,020	1,644	--	--	--	1,644	8,664
3.0-4.9	3,352	632	3,984	--	--	--	--	--	3,984
5.0-6.9	3,013	--	3,013	517	--	--	--	517	3,530
7.0-8.9	1,403	--	1,403	1,182	--	--	--	1,182	2,585
9.0-10.9	1,880	--	1,880	814	--	--	--	814	2,695
11.0-12.9	827	--	827	372	--	--	49	421	1,249
13.0-14.9	604	--	604	324	--	--	--	324	928
15.0-16.9	131	--	131	190	--	--	--	190	322
17.0-18.9	113	--	113	85	--	--	84	169	282
19.0-20.9	--	--	--	25	--	--	39	64	64
21.0-22.9	--	--	--	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	--	--	12	12	12
ALL CLASSES	17,711	1,265	18,976	5,153	--	--	184	5,337	24,313

Estimates are subject to sampling error.

Totals may be off because of rounding.

- = no data were collected.

TABLE 12--NET VOLUME OF GROWING STOCK BY FOREST TYPE AND LAND CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	ALL CLASSES
			THOUSAND CUBIC FEET			
BLACK SPRUCE	--	--	17,338	17,338	--	17,338
WHITE SPRUCE	74,817	37,846	74,725	187,388	--	187,388
COTTONWOOD	--	103,417	16,426	119,843	--	119,843
ASPEN	--	--	--	--	--	--
BIRCH	24,556	20,746	--	45,302	--	45,302
UNCLASSIFIED	--	--	--	--	--	--
ALL TYPES	99,373	162,009	108,488	369,871	--	369,871

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 13--NET VOLUME OF SAWTIMBER BY FOREST TYPE AND LAND CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	ALL CLASSES
			THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE			
BLACK SPRUCE	--	--	4,288	4,288	--	4,288
WHITE SPRUCE	328,192	126,365	245,019	699,576	--	699,576
COTTONWOOD	--	472,818	71,951	544,769	--	544,769
ASPEN	--	--	--	--	--	--
BIRCH	95,969	84,109	--	180,078	--	180,078
UNCLASSIFIED	--	--	--	--	--	--
ALL TYPES	424,161	683,292	321,258	1,428,711	--	1,428,711

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 14--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	--	5,136	--	--	386	5,522
7.0-8.9	--	7,587	--	--	2,889	10,475
9.0-10.9	--	18,735	--	--	2,458	21,193
11.0-12.9	--	15,446	--	--	4,739	20,185
13.0-14.9	--	14,651	--	--	5,010	19,660
15.0-16.9	--	6,059	--	--	3,451	9,510
17.0-18.9	--	5,983	--	--	4,636	10,619
19.0-20.9	--	1,221	--	--	624	1,845
21.0-22.9	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	365	365
ALL CLASSES	--	74,817	--	--	24,556	99,373

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 15--NET VOLUME OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT		*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*				
9.0-10.9	-	94,226	--	-	4,447	98,673
11.0-12.9	--	81,471	-	--	23,576	105,047
13.0-14.9	-	81,356	--	--	22,278	103,635
15.0-16.9	-	32,140	-	-	16,303	48,443
17.0-18.9	-	32,407	-	-	24,168	56,576
19.0-20.9	-	6,592	--	--	3,171	9,763
21.0-22.9	-	--	--	--	--	--
23.0-24.9	-	--	--	--	--	--
25.0 AND LARGER	-	--	--	--	2,025	2,025
ALL CLASSES	-	328,192	--		95,969	424,161

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 16--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT STAND VOLUME CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	STAND VOLUME CLASS (CUBIC FEET PER ACRE)					
	0-299	300-799	800-1,499	1,500-2,199	2,200 AND OVER	ALL CLASSES
INCHES AT BREAST HEIGHT	*THOUSAND CUBIC FEET*					
5.0-6.9	--	288	5,046	188	--	5,522
7.0-8.9	669	2,586	4,371	2,850	--	10,475
9.0-10.9	3,439	4,473	8,659	4,623	--	21,193
11.0-12.9	--	2,545	14,133	3,507	--	20,185
13.0-14.9	2,503	6,136	9,218	1,804	--	19,660
15.0-16.9	--	3,051	3,451	3,008	--	9,509
17.0-18.9	--	6,843	2,743	1,032	--	10,618
19.0-20.9	614	624	607	--	--	1,845
21.0-22.9	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--
25.0 AND LARGER	--	365	--	--	--	365
ALL CLASSES	7,224	26,910	48,228	17,011		99,373

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 17--NET VOLUME ON TIMBERLAND BY TIMBER CLASS AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

TIMBER CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND CUBIC FEET			
SAWTIMBER TREES:				
SAWLOG PORTION	70,622	--	--	70,622
UPPER STEM PORTION	7,558	--	--	7,558
TOTAL	78,179	--	--	78,179
POLETIMBER TREES	21,194	--	--	21,194
ALL GROWING STOCK	99,373	--	--	99,373
ROUGH TREES:				
SAWTIMBER	--	--	--	--
POLETIMBER	1,042	--	--	1,042
TOTAL	1,042	--	--	1,042
ROTTEN TREES:				
SAWTIMBER	--	--	--	--
POLETIMBER	258	--	--	258
TOTAL	258	--	--	258
SALVABLE DEAD TREES:				
SAWTIMBER	1,883	--	--	1,883
POLETIMBER	406	--	--	406
TOTAL	2,289	--	--	2,289
ALL CLASSES	102,962	--	--	102,962

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/Potential yield per acre, mean annual increment.

ABLE 18- NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND DIAMETER CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

IMBER LASS	DIAMETER CLASS (INCHES AT BREAST HEIGHT) 5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0 22.9	23.0- 24.9	25.0 AND LARGER	ALL CLASSES
	THOUSAND CUBIC FEET											
AWTIMBER TREES:												
SAWLOG PORTION		--	13,892	17,829	17,868	8,833	10,099	1,744	-		357	70,622
UPPER STEM PORTION		--	2,105	2,356	1,792	677	519	101			8	7,558
TOTAL			15,996	20,185	19,660	9,509	10,618	1,845	-		365	78,179
OLETIMBER TREES	5,522	10,475	5,196		--							21,194
LL GROWING STOCK	5,522	10,475	21,192	20,185	19,660	9,509	10,618	1,845			365	99,373
OUGH TREES:												
SAWTIMBER												
POLETIMBER	193	507	342			-	-	--		--	--	1,042
TOTAL	193	507	342	--	--	--	--					1,042
OTTEN TREES:												
SAWTIMBER	-	--	--	--	--	--	--	--			-	--
POLETIMBER		-	258	--	--	--	--	-				258
TOTAL	-	--	258					--	-	--		258
ALVABLE DEAD TREES:												
SAWTIMBER	-	--	817	544	522			--	--	--		1,883
POLETIMBER	-	406	--	--	--	--	--	--	-			406
TOTAL		406	817	544	522					-	-	2,289
LL CLASSES	5,714	11,389	22,609	20,729	20,182	9,509	10,618	1,845			365	102,962

stimates are subject to sampling error.

otals may be off because of rounding.

. = no data were collected.

TABLE 19--NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND SPECIES, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

TIMBER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
				THOUSAND CUBIC FEET					
SAWTIMBER TREES:									
SAWLOG PORTION	49,199	--	49,199	16,961	--	--	4,462	21,423	70,622
UPPER STEM PORTION	3,981	--	3,981	3,182	--	--	393	3,577	7,558
TOTAL	53,180	--	53,180	20,145	--	--	4,855	25,000	78,179
POLETIMBER TREES	10,375	--	10,375	10,819	--	--	--	10,819	21,194
ALL GROWING STOCK	63,555	--	63,555	30,964	--	--	4,855	35,819	99,373
ROUGH TREES:									
SAWTIMBER	--	--	--	--	--	--	--	--	--
POLETIMBER	507	--	507	535	--	--	--	535	1,042
TOTAL	507	--	507	535	--	--	--	535	1,042
ROTTEN TREES:									
SAWTIMBER	--	--	--	--	--	--	--	--	--
POLETIMBER	--	--	--	258	--	--	--	258	258
TOTAL	--	--	--	258	--	--	--	258	258
SALVABLE DEAD TREES:									
SAWTIMBER	1,361	--	1,361	522	--	--	--	522	1,883
POLETIMBER	406	--	406	--	--	--	--	--	406
TOTAL	1,768	--	1,768	522	--	--	--	522	2,289
ALL CLASSES	65,829	--	65,829	32,278	--	--	4,855	37,133	102,962

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

ABLE 20--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

ASAL REA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
QUARE FEET ER ACRE	*THOUSAND CUBIC FEET*								
-19	8,095	--	8,095	4,388	--	--	--	4,388	12,483
0-39	5,903	--	5,903	655	--	--	--	655	6,558
0-59	20,523	--	20,523	15,463	--	--	3,459	18,922	39,445
0-79	5,382	--	5,382	5,734	--	--	--	5,734	11,116
0-99	23,652	--	23,652	4,723	--	--	1,396	6,119	29,771
00-119	--	--	--	--	--	--	--	--	--
20 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	63,554	--	63,554	30,964	--	--	4,855	35,819	99,373

stimates are subject to sampling error.

otals may be off because of rounding.

- = no data were collected.

ABLE 21--NET VOLUME OF SAWTIMBER ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

ASAL REA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
QUARE FEET ER ACRE	*THOUSAND CUBIC FEET, INTERNATIONAL 1/4-INCH RULE*								
-19	44,521	--	44,521	22,143	--	--	--	22,143	66,665
)-39	27,912	--	27,912	3,237	--	--	--	3,237	31,150
)-59	114,725	--	114,725	45,031	--	--	16,264	61,295	176,020
)-79	27,132	--	27,132	7,973	--	--	--	7,973	35,106
)-99	94,269	--	94,269	14,630	--	--	6,322	20,952	115,221
)0-119	--	--	--	--	--	--	--	--	--
20 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	308,560	--	308,560	93,015	--	--	22,586	115,601	424,161

timates are subject to sampling error.

tals may be off because of rounding.

- = no data were collected.

TABLE 22-NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND CUBIC FEET			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	994	--	--	994
COTTONWOOD	--	--	--	--
ASPEN	--	--	--	--
BIRCH	445	--	--	445
ALL TYPES	1,439	--	--	1,439

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/Potential yield per acre, mean annual increment.

TABLE 23--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	5,383	--	--	5,383
COTTONWOOD	--	--	--	--
ASPEN	--	--	--	--
BIRCH	1,769	--	--	1,769
ALL TYPES	7,152	--	--	7,152

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 24--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT		*THOUSAND CUBIC FEET*				
5.0-6.9	--	371	--	--	48	419
7.0-8.9	--	265	--	--	67	332
9.0-10.9	--	412	--	--	41	453
11.0-12.9	--	305	--	--	80	385
13.0-14.9	--	1/ -151	--	--	76	-75
15.0-16.9	--	87	--	--	26	113
17.0-18.9	--	-304	--	--	92	-213
19.0-20.9	--	9	--	--	10	19
21.0-22.9	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	6	6
ALL CLASSES	--	994	--	--	445	1,439

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 25--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT		*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*				
9.0-10.9	--	6,138	--	--	68	6,206
11.0-12.9	--	1,777	--	--	460	2,237
13.0-14.9	--	1/ -1,225	--	--	451	-774
15.0-16.9	--	522	--	--	140	663
17.0-18.9	--	-1,886	--	--	547	-1,340
19.0-20.9	--	57	--	--	65	122
21.0-22.9	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	38	38
ALL CLASSES	--	5,383	--	--	1,769	7,152

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 26--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE	*THOUSAND CUBIC FEET*								
1-19	1/ -486	--	-486	74	--	--	--	74	-412
20-39	134	--	134	9	--	--	--	9	143
40-59	513	--	513	218	--	--	58	275	789
60-79	72	--	72	32	--	--	--	32	104
80-99	746	--	746	55	--	--	15	70	815
100-119	--	--	--	--	--	--	--	--	--
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	978	--	978	388	--	--	73	460	1,439

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 27--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*								
1-19	1/ -3,467	--	-3,467	471	--	--	--	471	-2,996
20-39	491	--	491	66	--	--	--	66	558
40-59	6,716	--	6,716	655	--	--	343	998	7,714
60-79	358	--	358	-475	--	--	--	-475	-117
80-99	1,694	--	1,694	197	--	--	102	299	1,993
100-119	--	--	--	--	--	--	--	--	--
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	5,793	--	5,793	914	--	--	446	1,360	7,152

Estimates are subject to sampling error.

Totals may be off because of rounding.

- = no data were collected.

/ Negative net annual growth indicates that annual mortality exceeded gross growth.

TABLE 28--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/			
	20-49	50-84	85-119	ALL CLASSES
INCHES AT BREAST HEIGHT	*THOUSAND CUBIC FEET*			
5.0-6.9	419	--	--	419
7.0-8.9	332	--	--	332
9.0-10.9	453	--	--	453
11.0-12.9	385	--	--	385
13.0-14.9	2/ -75	--	--	-75
15.0-16.9	113	--	--	113
17.0-18.9	-213	--	--	-213
19.0-20.9	19	--	--	19
21.0-22.9	--	--	--	--
23.0-24.9	--	--	--	--
25.0-26.9	6	--	--	6
27.0-28.9	--	--	--	--
29.0 AND LARGER	--	--	--	--
ALL CLASSES	1,439	--	--	1,439

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

2/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 29--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
INCHES AT BREAST HEIGHT	*THOUSAND CUBIC FEET, INTERNATIONAL 1/4-INCH RULE*			
9.0-10.9	6,206	--	--	6,206
11.0-12.9	2,237	--	--	2,237
13.0-14.9	2/ -774	--	--	-774
15.0-16.9	663	--	--	663
17.0-18.9	-1,340	--	--	-1,340
19.0-20.9	122	--	--	122
21.0-22.9	--	--	--	--
23.0-24.9	--	--	--	--
25.0-26.9	38	--	--	38
27.0-28.9	--	--	--	--
29.0 AND LARGER	--	--	--	--
ALL CLASSES	7,152	--	--	7,152

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

2/ Negative net annual growth indicates that annual mortality exceeded gross annual growth.

TABLE 30--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND CUBIC FEET			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	773	--	--	773
COTTONWOOD	--	--	--	--
ASPEN	--	--	--	--
BIRCH	--	--	--	--
ALL TYPES	773	--	--	773

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 31--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	4,929	--	--	4,929
COTTONWOOD	--	--	--	--
ASPEN	--	--	--	--
BIRCH	--	--	--	--
ALL TYPES	4,929	--	--	4,929

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 32--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	--	--	--	--	--	--
7.0-8.9	--	--	--	--	--	--
9.0-10.9	--	--	--	--	--	--
11.0-12.9	--	--	--	--	--	--
13.0-14.9	--	406	--	--	--	406
15.0-16.9	--	--	--	--	--	--
17.0-18.9	--	366	--	--	--	366
19.0-20.9	--	--	--	--	--	--
21.0-22.9	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	--	--
ALL CLASSES	--	773	--	--	--	773

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 33--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT		*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*				
9.0-10.9	--	--	--	--	--	--
11.0-12.9	--	--	--	--	--	--
13.0-14.9	--	2,672	--	--	--	2,672
15.0-16.9	--	--	--	--	--	--
17.0-18.9	--	2,256	--	--	--	2,256
19.0-20.9	--	--	--	--	--	--
21.0-22.9	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--
25.0 AND LARGER	--	--	--	--	--	--
ALL CLASSES	--	4,929	--	--	--	4,929

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 34--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE	*THOUSAND CUBIC FEET*								
1-19	681	--	681	--	--	--	--	--	681
20-39	--	--	--	--	--	--	--	--	--
40-59	--	--	--	--	--	--	--	--	--
60-79	--	--	--	92	--	--	--	92	92
80-99	--	--	--	--	--	--	--	--	--
100-119	--	--	--	--	--	--	--	--	--
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	681	--	681	92	--	--	--	92	773

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 35--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*								
1-19	4,311	--	4,311	--	--	--	--	--	4,311
20-39	--	--	--	--	--	--	--	--	--
40-59	--	--	--	--	--	--	--	--	--
60-79	--	--	--	618	--	--	--	618	618
80-99	--	--	--	--	--	--	--	--	--
100-119	--	--	--	--	--	--	--	--	--
120 AND OVER	--	--	--	--	--	--	--	--	--
ALL CLASSES	4,311	--	4,311	618	--	--	--	618	4,929

Estimates are subject to sampling error

Totals may be off because of rounding.

-- = no data were collected.

TABLE 36--ANNUAL MORTALITY OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/			ALL CLASSES
	20-49	50-84	85-119	
INCHES AT BREAST HEIGHT	*THOUSAND CUBIC FEET*			
5.0-6.9	--	--	--	
7.0-8.9	--	--	--	--
9.0-10.9	--	--	--	--
11.0-12.9	--	--	--	--
13.0-14.9	406	--	--	406
15.0-16.9	--	--	--	--
17.0-18.9	366	--	--	366
19.0-20.9	--	--	--	--
21.0-22.9	--	--	--	--
23.0-24.9	--	--	--	--
25.0-26.9	--	--	--	--
27.0-28.9	--	--	--	--
29.0 AND LARGER	--	--	--	--
ALL CLASSES	773	--	--	773

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 37--ANNUAL MORTALITY OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
INCHES AT BREAST HEIGHT	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*			
1.0-2.9	--	--	--	--
3.0-4.9	--	--	--	--
5.0-6.9	--	--	--	--
7.0-8.9	--	--	--	--
9.0-10.9	--	--	--	--
11.0-12.9	--	--	--	--
13.0-14.9	2,672	--	--	2,672
15.0-16.9	--	--	--	--
17.0-18.9	2,256	--	--	2,256
19.0-20.9	--	--	--	--
21.0-22.9	--	--	--	--
23.0-24.9	--	--	--	--
25.0 AND LARGER	--	--	--	--
ALL CLASSES	4,929	--	--	4,929

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 38--NUMBER OF GROWING STOCK TREES, CUBIC-FOOT VOLUME PER ACRE, AND VOLUME PER ACRE IN INTERNATIONAL 1/4-INCH RULE ON TIMBERLAND AND ALL FOREST LAND BY FOREST TYPE, BELUGA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	TREES PER ACRE 1/	VOLUME PER ACRE	VOLUME PER ACRE
	NUMBER	*CUBIC FEET*	*BOARD FEET, INTERNATIONAL 1/4-INCH RULE*
TIMBERLAND:			
BLACK SPRUCE	--	--	--
WHITE SPRUCE	93	772	3,385
COTTONWOOD	--	--	--
ASPEN	--	--	--
BIRCH	55	706	2,759
ALL TIMBERLAND	83	754	3,220
FOREST LAND:			
BLACK SPRUCE	68	191	47
WHITE SPRUCE	70	494	1,843
COTTONWOOD	59	1,005	4,570
ASPEN	--	--	--
BIRCH	66	768	3,051
ALL FOREST LAND	67	570	2,203

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Trees 5.0 inches in d.b.h. and larger.

Metric Equivalents

1 inch = 25.4 millimeters (mm)
1 inch = 0.0254 meter (m)
1 foot = 0.3048 meter (m)
1 mile = 1.609 kilometers (km)
1 acre = 0.4047 hectare (ha)
1 cubic foot = 0.0283 cubic meter (m^3)
1 cubic foot per acre = 0.069 97 cubic meter per hectare (m^3/ha)
20 cubic feet per acre = 1.3994 cubic meters per hectare (m^3/ha)
1 square foot basal area per acre = 0.2296 square meter per hectare (m^2/ha)

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A multiresource inventory of the Beluga block, Susitna River basin inventory unit, was conducted in 1980. Statistics on forest area, timber volumes, and growth and mortality from this inventory are presented. Timberland area is estimated at 131,740 acres and net growing stock volume, mostly hardwood, is 99.4 million cubic feet. Net annual growth of growing stock is estimated at 1.4 million cubic feet and annual mortality at 773,000 cubic feet.

Keywords: Forest surveys, timber inventory, multiresource inventory, statistics (forest), resources (forest), Alaska (south-central), Alaska (Susitna River basin).

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Timber Resource Statistics for the Upper Susitna Block, Susitna River Basin Multiresource Inventory Unit, Alaska, 1980

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Abstract

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A multiresource inventory of the Upper Susitna block, Susitna River basin inventory unit, was conducted in 1980. Statistics on forest area, timber volumes, and annual growth from this inventory are presented. Timberland area is estimated at 112,130 acres and net growing stock volume, mostly hardwood, is 184.6 million cubic feet. Net annual growth of growing stock is estimated at 1.4 million cubic feet.

Keywords: Forest surveys, timber inventory, multiresource inventory, statistics (forest), resources (forest), Alaska (south-central).

Summary

The Forest Inventory and Analysis (FIA) work unit of the Pacific Northwest Forest and Range Experiment Station conducted its first multiresource inventory for Alaska in the Susitna River basin. Fieldwork began in 1978 in the Willow block, followed by the Talkeetna block in 1979. The Beluga and Upper Susitna blocks were inventoried in 1980. The 5,667,454-acre Upper Susitna block is bounded on the north by the Alaska Range, on the southwest by the Talkeetna Mountains, on the southeast by Lake Louise, and on the east by Tangle Lakes.

Statistics on forest area, net timber volumes, and annual growth are presented from the 1980 multiresource inventory of the Upper Susitna block. Timberland area is estimated at 112,130 acres and net growing stock volume at 184.6 million cubic feet. Net annual growth of growing stock is estimated at 1.4 million cubic feet.

Preface

Forest Inventory and Analysis is a nationwide project of the USDA Forest Service authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. Work units of the project, located at Forest Service Experiment Stations, conduct forest resource inventories throughout the 50 States. The Pacific Northwest Forest and Range Experiment Station at Portland, Oregon, is responsible for inventories in Alaska, California, Hawaii, Oregon, and Washington.

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Highlights 1/

Area

- Gross area of the Upper Susitna block is 5,667,454 acres.

- Forest land area is 1,141,672 acres, which is equivalent to 20.1 percent of the gross area in the block.

- Timberland accounts for 112,130 acres, or 9.8 percent of all forest land. Timberland is capable of producing 20 cubic feet or more of wood per acre per year.

- Black spruce is the predominant forest type, accounting for 625,087 acres and almost 55 percent of the total forest land. The white spruce type follows with 301,778 acres and about 26 percent of the total forest land. The remaining 19 percent is in the birch and cottonwood types.

- The predominant vegetation class on timberland is open deciduous forest, old stands-deciduous/mixed (70,027 acres). This class occupies 62.4 percent of the timberland area, or 6 percent of all forest land.

- The predominant vegetation class on all forest land (timberland and other forest land combined) is open coniferous forest, short stands-black spruce (494,485 acres).

- Site class 4 land (capable of producing 20-49 cubic feet per acre per year) supports all of the timberland and averages 1, cubic feet of growing stock volume per acre.

1/ Values presented in this section are estimates and are subject to sampling error.

Inventory

- Growing stock volume on timberland is 184.6 million cubic feet, with the majority of it, 94.9 percent, in sawtimber trees.

- Salvable dead sawtimber and poletimber trees contributed 586,000 cubic feet of wood volume.

- Black cottonwood makes up 82.9 percent of the growing stock volume and 86.6 percent of the sawtimber volume. The remaining volume is mostly birch.

- Average softwood growing stock volume per acre of timberland is 101 cubic feet and 466 board feet, International 1/4-inch rule. Hardwood growing stock volume equals 1,545 cubic feet and 8,650 board feet per acre.

- There are an average of 25 trees per acre of sawtimber-sized growing stock on timberland.

- There are an average of 34 trees per acre of growing stock less than sawtimber size.

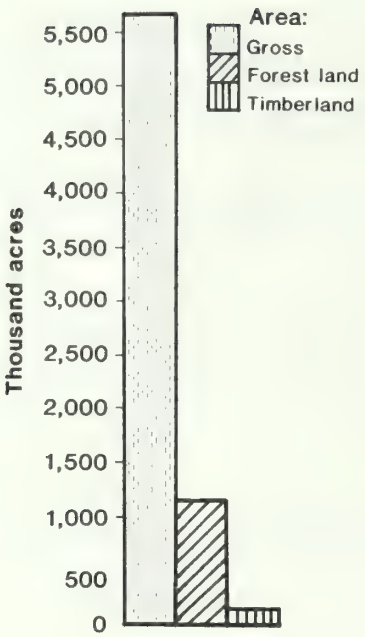
Growth

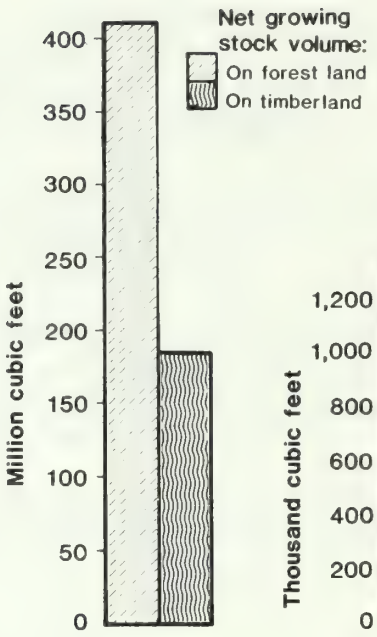
- Net annual growth of growing stock on timberland is 1.38 million cubic feet. Of the growing stock, 41.7 percent, or 577,000 cubic feet is in the birch type. (Because no mortality was encountered on ground sample locations, estimates for net annual growth and gross growth are the same.)

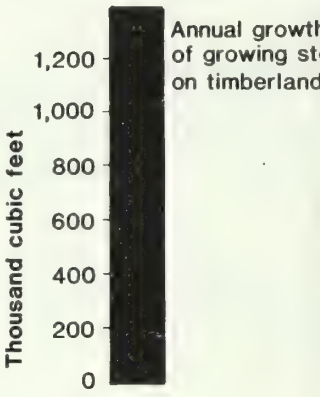
Mortality

- Mortality data were not compiled for the Upper Susitna block because no mortality trees were encountered on the ground sample locations.

Upper Susitna Block at a Glance







Introduction

In 1977, the Alaska Forest Inventory and Analysis (FIA) work unit of the USDA Forest Service, Pacific Northwest Forest and Range Experiment Station, joined with other agencies to plan and conduct a multiresource inventory of the Susitna River basin. Cooperating agencies were the USDA Forest Service, Alaska Region, State and Private Forestry; USDA Soil Conservation Service; and the State of Alaska, Department of Natural Resources. This report deals with the timber resource.

The 5,667,454-acre Upper Susitna block is part of the Susitna River basin multiresource inventory unit, located in south-central Alaska (figs. 1-3). The Susitna River basin is bordered on the north and west by the Alaska Range, on the south by Cook Inlet, and on the east by the Copper River plateau. The Upper Susitna block is between 62°5' and 63°40' N. latitude, and 146°15' and 149°45' W. longitude. Major drainages in the block are the Susitna and Maclaren Rivers. Other drainages include the Black, Indian, Oshetna, and Tyone Rivers.

The concept of this multiresource inventory requires that all renewable resources be given equal consideration when allocating ground samples. This means that ground data are collected on all forest and range lands, not just on timberland. Timber resource statistics, particularly those for forest area and timber volume, growth, and mortality, may therefore exceed desired error limits. Users are cautioned to carefully view the data presented and to evaluate the information on reliability in the following section of this report.

The Upper Susitna block was the fourth and final portion of the Susitna unit to be inventoried. Fieldwork was conducted in 1980. Within the block are two proposed dam sites currently comprising the multi-billion dollar Susitna Hydroelectric project. Considerable development may occur in the area and throughout the entire Susitna River basin should the project be funded for construction.

Figure 1.--Upper Susitna block, Susitna River basin.

Figure 2.--The Upper Susitna block provides good habitat for big game animals, including moose. Willow shrubs are predominant in the area.

Figure 3.--Forest land in the foreground supports black spruce trees 15-25 feet tall. Species on slightly higher ground (background) include taller birch and white spruce.

Inventory Procedures

Sampling strata for the Upper Susitna block follow. Land cover/vegetation classes for all the strata except water are detailed beginning on page 14.

Forest and woodland (greater than 10-percent tree crown cover)
- Stratum 1. Closed forest (greater than 50-percent tree crown cover)
- Stratum 2. Open forest (10- to 50-percent tree crown cover)

Nonforest (less than 10-percent tree crown cover):
- Stratum 3. Nonforest
- Stratum 4. Cultural influence
- Stratum 5. Nonvegetated-barren
- Stratum 6. Water

Forest and nonforest:
- Stratum 7. Unclassified.

Vegetation for the study area was interpreted for primary aerial photo points located every 1 500 meters on 1:120,000 scale color infrared aerial photography. These points were first located using Universal Transverse Mercator (UTM) grid intersections on 1:63,360-scale quadrangles of the U.S. Geological Survey. Next, these points were visually transferred to aerial photos. A sampling stratum for each point was interpreted and a predominant vegetation type assigned to the circular 5-acre area surrounding each point. A double sampling method was used to derive estimates (Bickford 1952), with ground plots located in the same types as the photo plots.

Sampling of a representative number of photo points followed, using a double sampling procedure. Points for ground measurements were located in the same vegetation types as the associated intersections of the grid.

Field plots were selected by considering type variances, costs of accessing plots and taking measurements, and the desired intensity of sampling that would enable data from this block to be compiled separately and still meet FIA standards for sampling error.

From the photo points, 120 were selected for ground observations and measurements. Sample points were established in 10-point clusters and measured within each 5-acre location. These measurements are the basis for the estimates given in this paper. 2/

On forested points, measurements of trees larger than 5 inches in d.b.h. were made on variable radius plots using a nonmetric prism with 40 basal area factor. Trees less than 5 inches were measured on 1/300-acre, circular, fixed radius plots.

2/ Mead, Bert R. Field procedures for the cooperative vegetation inventory of the Susitna River basin, Alaska, Upper Susitna block. Anchorage, AK. U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station, Forestry Sciences Laboratory; 1980. 166 p. Unpublished report.

Reliability of Inventory Data

Area and volume statistics reported here are estimates based o sampling and, therefore, are subject to sampling error. The reliability of the inventory is expressed in terms of relative sampling errors at the 68-percent confidence level:

	Design sampling error 3/	Sampling error achieved	Sampling err of the tota estimate
		Percent	
Timberland area:			
Per million acres	3.0	16.5	
For the total 112,130 acres			±49.3
Other forest land area:			
Per million acres	10.0	9.7	
For the total 1,029,542 acres			± 9.6
Net growing stock volume:			
Per billion cubic feet	10.0	33.7	
For the total 184,563,878 ft^3			±78.5
Net annual growth of growing stock:			
Per billion cubic feet	10.0	1.9	
For the total 1,382,669 ft^3			±51.6

The estimate of net growing stock volume for the Upper Susitna block is 184.564 million cubic feet, ±78.5 percent, yielding 68-percent confidence limits of 329.446 million and 39.681 million cubic feet. A 68-percent confidence level means that i repeated samples are taken of this population, the total volume would be between 329.446 million and 39.681 million cubic feet, 68 percent of the time.

3/ Forest Service Handbook 4813.1. Chapter 10, Operational Procedures 11.1--1; 1967.

Design sampling errors for timberland area (3 percent) and cubic-foot net growing stock volume (10 percent) were not met. Design sampling errors for other forest land area and net growth on growing stock (both 10 percent) were met.

erminology [4/]

Acceptable trees--Trees meeting the specifications for growing stock but not qualifying as desirable trees.

Area condition class--Area condition class provides a general stratification of timberland by management opportunity class as indicated by the stocking or area controlled by tree and cover class.

Area condition class codes--

10 Areas 100 percent or more stocked with desirable trees and not overstocked. Stands in this category generally do not require any treatment at present to maintain high level of growth.

20 Areas 100 percent or more stocked with desirable trees and overstocked. Stands in this category need a treatment such as thinning to produce maximum levels of growth of desirable trees.

30 Areas 60 to 100 percent stocked with desirable trees, and with less than 30 percent of the area controlled by acceptable growing stock trees, inhibiting vegetation, slash, or nonstockable conditions. Stands in this category generally have conditions favorable for natural improvement of stocking without special treatment.

40 Areas 60 to 100 percent stocked with desirable trees and with 30 percent or more of the area controlled by other trees (or overstocked areas) or conditions that ordinarily prevent occupancy by desirable trees. Stands in this category generally have little prospect for improvement in desirable tree stocking without special treatment such as thinning or cull tree removal.

50 Areas less than 60 percent stocked with desirable trees but with 100 percent or more stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable tree stocking without special treatment. Stands almost to rotation age would usually not be treated.

4/ Terminology is from the manual of field procedures for the Susitna River basin inventory (see footnote 2), and Forest Service Handbook 4813.1 (see footnote 3).

60 Areas less than 60 percent stocked with desirable trees but with 60- to 100-percent stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable tree stocking without special treatment such as timber stand improvement or planting.

70 Areas less than 60 percent stocked with desirable trees and with less than 60-percent stocking with growing stock trees. Stands in this category generally have little prospect for improved desirable tree or growing stock stocking without treatment such as site preparation or regeneration.

Basal area--A measure of square feet of space occupied by the stem of a tree at diameter breast height.

Census water--Area reported as water by the Bureau of the Census: streams, sloughs, estuaries, and canals more than one-eighth mile wide; and lakes, reservoirs, and ponds of more than 40 acres.

Commercial species--Tree species presently or potentially suitable for industrial wood products.

Cull material--Portions of a tree unusable for industrial products because of rot, form, or other defect.

Cull trees--Live trees of sawtimber or poletimber size that are not merchantable for saw logs now nor are they likely to become merchantable because of defect, rot, or species.

D.b.h.--Diameter at breast height, a point 4-1/2 feet above the ground on the uphill side of a tree, where, on a normally formed tree, the diameter is measured.

Desirable trees--Growing stock trees with no serious defects in quality limiting present or prospective use, relatively high vigor, and hosting no pathogens that could result in death or serious deterioration before rotation age. They include the type of trees forest managers aim to grow; that is, the trees left in silvicultural cutting or favored in cultural operations.

Diameter class--A classification of trees based on diameter of the tree outside the bark, measured at breast height (4-1/2 feet above the ground). Two-inch diameter classes are commonly used by FIA, with the even inch the approximate midpoint for a class.

Forest land--Land at least 16.7 percent stocked by forest trees of any size, or land formerly having such tree cover, and not currently developed for nonforest use.

Forest trees--Woody plants having a well-developed stem and usually more than 12 feet tall at maturity.

Forest types--A classification of forest land based on the species forming a plurality of the live tree stocking.

Black spruce--Forests in which a plurality of the stand is black spruce. Black spruce most often occurs in nearly pure stands but can be found mixed with tamarack, white spruce, paper birch, and aspen. Black spruce is fairly characteristic of poorer forest land.

White spruce--Forests in which a plurality of the stand is white spruce. Common associates include paper birch and balsam poplar, and occasionally black spruce or quaking aspen.

Balsam poplar--Forests in which a plurality of the stand is balsam poplar. South of the Alaska Range, balsam poplar may be replaced by black cottonwood or hybrids between the two. As the poplar ages, it is usually replaced by white spruce; however, it is usually found as a nearly pure type with only an occasional associate of white spruce or paper birch.

Black cottonwood--Forests in which a plurality of the stand is black cottonwood. Black cottonwood is found south of the Alaska Range in pure stands along major rivers. It hybridizes extensively with balsam poplar where their ranges overlap, and in this overlap area types are not easily distinguished by species but are usually reported as cottonwood/poplar. Black cottonwood stands are replaced by white spruce as they age and the pure stands contain only an occasional white spruce or paper birch.

Paper birch--Forests in which a plurality of the stand is paper birch. Paper birch can occur in pure stands but is more often mixed with white spruce, quaking aspen, or black spruce.

Quaking aspen--Forests in which a plurality of the stand is aspen. Aspen is usually found as a pure type following fire and a willow stage of succession. As the aspen ages, it is usually replaced by spruce, except on very dry sites where it may remain as a pure type. Common associates include black spruce and white spruce and occasionally paper birch.

Gross growth--Annual increase in net volume of trees that have not been cut or have not died.

Growing stock tree--Sawtimber trees, poletimber trees, saplings, and seedlings; that is, all live trees except cull trees.

Growing stock volume--The net cubic-foot volume of sound wood in the bole of growing stock trees 5.0 inches in d.b.h. and larger, from stump to a minimum 4.0-inch top outside the bark or to the point where the central stem breaks into limbs.

Hardwoods--Dicotyledonous trees, usually broadleaved and deciduous. Hardwood species in interior Alaska are balsam poplar, black cottonwood, paper birch, and quaking aspen.

International 1/4-inch rule--A log rule using diameter and length to give yields of logs in board feet of lumber produced when 1-inch boards are cut. It assumes one-half inch of taper per 4 feet of log and a saw kerf of one-fourth inch.

Land area--Area reported as land by the Bureau of the Census. Total land area includes dry land and land temporarily or partially covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than 120 feet wide; and lakes, reservoirs, and ponds less than 1 acre in area.

Land cover class--A classification of land by the predominant vegetative cover on it, such as forest land. The minimum size area for classification is 1 acre.

Mean annual increment (MAI)--A measure of the volume of wood, in cubic feet, produced on 1 acre during 1 year. FIA minimum standard for timberland is the ability to produce at least 20 cubic feet per acre per year.

Mortality--Number of or the sound wood volume from live trees dying from natural causes during a specified period (5 years).

Net annual growth of growing stock--The annual change in volume of sound wood in live sawtimber and poletimber trees.

Net annual growth of sawtimber--The annual change in net board-foot volume of live sawtimber trees.

Net volume--The gross volume of a tree less deductions for rot, sweep, or other defect affecting product use.

Non-Census water--Streams, sloughs, estuaries, and canals between 120 feet and one-eighth mile wide; and lakes, reservoirs, and ponds of 1-40 acres.

Noncommercial species--Tree species of typically small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial wood products.

Nonforest land--Land that does not qualify as forest land. Includes land that has never supported forests and lands formerly forested where forest use is precluded by development for nonforest uses, such as crops, improved pasture, residential areas, and city parks. Also includes improved roads and certain areas of water classified by the Bureau of Census as land. Unimproved roads, streams, canals, and nonforest strips in forest areas must be more than 120 feet wide, and clearings in forest areas must be more than 1 acre in size to qualify as nonforest land.

Nonstockable land--Areas of forest land not capable of supporting forest growth because of rock, water, etc.

Nonstocked areas--Timberland less than 16.7 percent stocked with growing stock trees.

Other forest land--Unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions (producing less than 20 cubic feet per acre per year). This includes sterile or poorly drained forest land, subalpine forests, and steep, rocky areas where topographic conditions are likely to prevent management for timber production. Also included is productive forest land withdrawn from commercial timber use by statute or administrative regulation.

Other forest land, inoperable--Other forest land with a gross volume less than 800 cubic feet per acre.

Other forest land, operable--Other forest land with a gross volume of 800 cubic feet or more per acre.

Overstocked areas--Areas where growth of trees is substantially reduced by excessive numbers of trees.

Poletimber stands--Stands at least 16.7 percent stocked with growing stock trees, with half or more of this stocking in poletimber and sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Poletimber trees--Trees 5.0 to 8.9 inches in d.b.h. for softwoods and 5.0 to 10.9 inches in d.b.h. for hardwoods.

Rotten trees--Live trees 5.0 inches in d.b.h. and larger that do not contain a saw log now and are not likely to, primarily because of rot.

Rough trees--Live trees 5.0 inches in d.b.h. and larger that do not contain a saw log now and are not likely to, primarily because of roughness, poor form, or because they are a noncommercial species.

Salvable dead trees--Standing dead trees that are considered currently or potentially merchantable by regional standards. A poletimber tree must be more than one-half sound, a sawtimber tree more than one-third sound (board measure).

Sapling trees--Trees 1.0 to 4.9 inches in d.b.h.

Saw log--A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum small-end diameter of 6 inches inside the bark for softwoods and 8 inches for hardwoods.

Saw-log portion--The bole of sawtimber trees between the stump and the saw-log top.

Saw-log top--The point on the bole of sawtimber trees above which a saw log cannot be produced. The minimum top diameter is 7.0 inches outside the bark for softwoods and 9.0 inches outside the bark for hardwoods.

Sawtimber stands--Stands at least 16.7 percent stocked with growing stock trees, with half or more of this stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to that of poletimber.

Sawtimber trees--Trees at least 9.0 inches in d.b.h. for softwoods and 11.0 inches in d.b.h. for hardwoods.

Sawtimber volume--The volume of sawtimber trees measured in board feet. Net volume equals gross volume less deductions for rot, sweep, crook, and other defects that affect use for lumber.

Seedling--An established tree less than 1.0 inch in d.b.h.

Seedling and sapling stands--Stands at least 16.7 percent stocked with growing stock trees and with seedlings and/or saplings comprising more than half of this stocking.

Site class--A classification of forest land based on its capacity to grow crops of industrial wood. Site classifications are based on the mean annual cubic-foot growth of growing stock attainable in fully stocked stands at culmination of mean annual increment.

Softwoods--Coniferous trees, usually evergreen with needles or scalelike leaves. Species in interior Alaska are white spruce, black spruce, and tamarack.

Stand size class--A classification of forest land based on the predominant size of growing stock present: sawtimber, poletimber, or seedlings and saplings.

Stand volume class--A classification of forest land based on cubic-foot or board-foot timber volume per acre.

Stocking--The degree of occupancy of land by trees, measured by basal area and/or the number of trees in a stand by size or age and spacing, compared with the basal area or number of trees required to fully utilize the growth potential of the land; that is, the stocking standard.

Timber class--A classification of trees based on characteristics of quality such as vigor, size of limbs and knots, and presence or absence of rot. Classes include growing stock; desirable and acceptable trees; and rough, rotten, and salvable dead trees.

Timberland--Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization. Areas qualifying as timberland could produce more than 20 cubic feet per acre per year of industrial wood under management.

Tree size class--A classification of trees based on the diameter of the tree at breast height.

Type map--A map showing classifications of vegetated and barren land, based on interpretation of aerial photographs. Like areas are delineated, labeled, and referred to as polygons.

Upper-stem portion--That part of the main stem or fork of sawtimber trees above the saw-log top to a minimum top diameter of 4.0 inches outside the bark or to the point where the main stem or fork breaks into limbs.

UTM--Universal transverse mercator grid system is a 1000-meter grid named for the map projection on which it is based. It consists of 60 grid zones, each 6° longitude in width. The origin of the grid zone lies at the intersection of the central meridian, which is a straight north-south line passing through Greenwich, England, and the equator, a straight east-west line. Grid lines within a zone are parallel and delineated on USGS quadrangle maps by blue tick marks on map margins.

Vegetation class--A classification of forest and nonforest vegetation based on species, canopy coverage, and height and/or age of vegetation. A classification system unique to FIA was developed for the Susitna River basin multiresource inventory. Classes are defined in the following section.

Water--See Census water and Non-Census water.

Vegetation/ Land Cover Classes

I. Forest and woodland (greater than 10-percent crown cover)

A. Closed coniferous forest (greater than 50-percent crown cover)

1. Short stands-white spruce. Main canopy usually less than 30 feet tall. Usually found at higher elevations as isolated pockets in areas dominated by alder; grassland; or open, mixed stands.

2. Tall stands-white spruce. Main canopy usually greater than 30 feet tall. Usually found at lower elevations on better sites; almost always found mixed with old and decadent, deciduous trees (very rarely found as a pure type in Susitna River basin).

3. Short stands-black spruce. Main canopy usually less than 30 feet tall. Generally found on wet and/or cold (poor) sites; may be found mixed with birch of poor quality but usually found as a pure type forming islands and stringers in bog areas or transition zones between bog area and forest areas. Understory is usually a thick moss and/or sedge mat.

4. Tall stands-black spruce. Main canopy usually greater than 30 feet tall. Can usually be identified as a fire-formed stand, on relatively good sites. Stands are remarkably pure, and the stocking density is usually quite high; may be found mixed with very scattered birch.

B. Closed deciduous forest (greater than 50-percent crown cover)

1. Young stands-deciduous/mixed. Canopy is usually very finely textured when viewed from above; openings in stand are very rare. Composed mostly of birch and/or aspen. This type very rarely mixed with other types except when found as a remnant condition in burned areas. Spruce is not usually evident as a component of the overstory in these young stands. Stands are 0-40 years old.

2. Medium age stands-deciduous/mixed. Canopy is usually fine textured when viewed from above; openings may be fairly common but are usually small. Vegetation elements of this type include birch, spruce, and aspen. Birch is usually found as a main component of this type, but percent composition may vary greatly depending on a number of factors: as the type increases in age, the percentage of white spruce as a crown component usually increases with the amount of understory and number of stand openings. Stands are 40-100 years old.

3. Old stands-deciduous/mixed. Canopy is usually somewhat coarse textured when viewed from above; openings are common and may appear in nearly half the stand. Canopy may also appear smooth, but openings appear as definite holes in the crown. Deciduous trees in these old stands are usually decadent. Spruce is often becoming the dominant species. The understory is usually visible from above and most commonly includes *Calamagrostis* sp. and *Alnus* sp. Stands are always older than 100 years.

Young stands-cottonwood. Most commonly found on new islands, downstream ends of old islands, and point bars of rivers. Cottonwood or poplar is usually mixed with large alder and/or willow; understory is sparse to nonexistent. Stands are 0-40 years old.

Medium age stands-cottonwood. Most commonly found within a mile of a river (alluvial soils). Stands are usually pure cottonwood or poplar; spacing is even and crown closure approaches 100 percent. Understory in the Susitna River basin is dominated by alder and devil's club. Stands are 40-100 years old.

6. Old stands-cottonwood. Most commonly found near rivers (alluvial soils). Stands may be mixed with young white spruce. Cottonwood trees are extremely large (30-40 inches in diameter) and decadent (larger trees may be only shells). Stand appears somewhat clumpy because of openings. Understory includes large quantities of alder, devil's club, and willow. Stands are older than 100 years.

C. Open coniferous forest (10- to 50-percent crown cover)

1. Short stands-white spruce. Usually found at higher elevations as a transition type between closed forest and high elevation, nonforest areas. Usually found mixed with vegetation elements of the higher elevation type: if the higher elevation type is a mixture of alder and grass, the open white spruce transition type will normally be forming a complex type with alder and grass. Trees are shorter than 30 feet.

2. Tall stands-white spruce. Same as short stands of white spruce normally found at lower elevations or on better sites. Commonly found in creek bottoms mixed with alder/willow and grass. Trees are taller than 30 feet.

3. Short stands-black spruce. Found in association with bog types. Black spruce trees are usually of very poor form. Site is either wet or cold or both. Trees are usually shorter than 15 feet.

D. Open deciduous forest (10- to 50-percent crown cover)

1. Medium age stands-deciduous mixed. Similar to short stands of white spruce except normally found at lower elevations (as elevation increases, so does proportion of spruce in mixed types). Although birch/aspen stands are not usually found as a transition type between forest and high elevation, nonforest areas, they are often found just below areas of open, short white spruce. Stands are 0-40 years old.

2. Old stands-deciduous/mixed. Found in same general location as open, tall stands of white spruce. Found in association with grass and alder. Birch is usually found growing in very small, tight clumps. Spruce is usually found to have an open grown form and is normally much younger than the hardwood component of the type.

3. Medium age stands-cottonwood. Usually found at tree line just above elevational limit of open white spruce. Found in pockets among low shrubs.

4. Old stands-cottonwood. Two elevational phases of this type seem to occur. The high elevation phase, consisting of balsam poplar, may be found mixed with streamside alder/willow along flowing water on high elevation flats. The low elevation phase, consisting of cottonwood, may be found on major river flood plains growing with a confusing mixture of other types such as open spruce, open birch, alder, and grass.

II. Nonforest (0- to 10-percent crown cover)

A. Tall shrub

1. Alder. This type is dominated by tall (10-15 feet) alder growing in dense thickets with grasses, ferns, and a great variety of forbs growing in the understory. Devil's club can be found as a dominant understory to the alder on wetter and steeper sites. Devil's club will normally exclude other understory vegetation. The type is found at or above tree line.

2. Alder willow (streamside vegetation). This type is dominated by a mixture of very large alder and willow and is normally found on frequently flooded ground such as new islands and point bars. Understory is sparse but may include *Equisetum* and *Calamagrostis*. This type is often found mixed with young, open cottonwood; in younger stands the cottonwood is almost indistinguishable from the willow and alder.

B. Low shrub (willow-resin birch)

This type is dominated by either willow or resin birch or a combination thereof. The type is often found in sheltered areas at high elevations such as draws in mountainous terrain. This type is found at and above the transition between tall shrubland and tundra.

C. Grassland (*Calamagrostis*)

This type is dominated by *Calamagrostis* 3-6 feet tall. Fireweed and various ferns are sometimes common. This type is most often found as an understory in the more open forest types and woodland areas where it is commonly associated with alder patches; can also be found unassociated with other types along small streams.

D. Tundra

1. Sedge-grass tundra. This type is found above tree line on relatively flat, wet areas. Vegetation consists almost entirely of various wet sedges.

2. Herbaceous tundra. This type is found above tree line and is almost always found mixed with and above shrub tundra. The variety of species found is immense, consisting mainly of various grasses and forbs. Soil varies in depth and may be intermixed with rock outcroppings. Vegetation may not be continuous.

3. Shrub tundra. This type is dominated by dwarf shrub birch and ericaceous shrubs along with various short grasses and a large number of forbs. This type is almost always found mixed with and below herbaceous tundra. Density of the shrubs varies considerably and may often appear quite patchy.

4. Mat and cushion tundra. This type is dominated by such plants as dryas, crowberry, bearberry, sedge, grass, lichens, and low-growing forbs. Climatic conditions are extreme at the elevation where this type is found. Vegetation cover may be complete (closed mat cushion) or relatively sparse (scattered mat cushion) with a large percentage of the vegetation being lichens. This type is often mixed with rock.

E. Saltwater wetlands

1. Grassland. *Elymus*-dominated grassland in areas of tidal influence. Usually found at edge of normal high water in sandy soil, where the shoreline gradient is relatively steep, and as a belt of grass along the shore.

2. Low shrub. *Myrica*-dominated shrubland located on tidal flats. Water level is usually fluctuating seasonally. In areas that are more continuously wet, sedge replaces *Myrica* sp.

3. Tidal marsh. Usually found in areas with many shallow lakes and little topographic relief (within tidal influence). Vegetation is dominated by various sedges. Woody plants may occur on the drier sedge and peat ridges that are common to this type.

F. Fresh water wetlands

1. Sphagnum bog. Cover is dominated by varying amounts of sedge, *Equisetum* and moss (especially *Sphagnum*). This type is usually found as a floating mat over several feet of water or as a thick mat directly over saturated or frozen soil. Shrubs and stunted trees (if present) may be found on drier peat ridges. This type is similar to tidal marsh except that shallow lakes are less common, the peat ridges form a more continuous and regular pattern and the type is found inland beyond tidal reach. Usually found as a pure type.

2. Sphagnum/shrub bog. Vegetation of this type is dominated by a thick moss mat (*Sphagnum*) and/or sedge tussocks. Grass, ericaceous shrubs, *Salix*, blueberry and cranberry may also be present. Ground water level usually varies seasonally, but this type is usually not as wet as a *Sphagnum* bog. Usually mixed with open stands of short black spruce. Many other types may also be found in close association with this type; they are usually found on glacial moraines and eskers within the bog area.

III. Cultural influence

May be broadly defined as land that has been obviously affected by human activity. Includes agricultural land, urban areas, and land developed to support or provide services to agricultural and urban land. This "type" may be vegetated, but vegetation that is present may not be natural in either composition or spacing.

IV. Nonvegetated-barren

A. Mud flat. Confined to tidal areas (for example, Cook Inlet) and the mouths of major rivers. This "type" may appear vegetated on infrared and normal color photography or from the air, but the "vegetation" is usually algal blooms, and/or other sea plants. Mud flats are usually well patterned with ripple marks or water drainage patterns, are normally submersed during high tide, and may be used as resting and feeding areas by waterfowl.

B. Rock. Includes exposed bedrock and scree commonly found with mat and cushion tundra at high elevations. This "type" is also used to describe large landslides, fresh moraines, and other natural barren areas.

C. Snow field. High-elevation, snow accumulation areas. Appears to be a permanent or nearly year-round part of the landscape. May be found as small pockets on slopes protected from the sun, on lee slopes, or in gulleys. Can be found over bare ground or mixed with mat and cushion tundra.

D. Glacier. Includes both icefields and glaciers. Usually found covering several square miles. Considered a permanent part of landscape. This "type" covers much larger areas than does the snowfield type; crevasses, moraines, and other glacial features are usually present.

V. Unclassified

Locations or "points" that could not be classified because of cloud cover or deep shadows on the aerial photographs.

Names of Trees 5/

Common name	Scientific name
Softwoods:	
Black spruce	*Picea mariana* (Mill.) B.S.P.
White spruce	*Picea glauca* (Moench) Voss
Hardwoods:	
Balsam poplar	*Populus balsamifera* L.
Black cottonwood	*Populus trichocarpa* Torr. and Gray
Paper birch	*Betula papyrifera* Marsh.
Quaking aspen	*Populus tremuloides* Michx.

5/ Scientific names are according to Viereck and Little (1972).

Tables

Estimates in this report are developed from statistically based samples and therefore are subject to sampling error. Sampling errors for estimates of various sizes are presented in the section "Reliability of Inventory Data."

TABLE 1--AREA BY VEGETATION/LAND COVER CLASS AND LAND CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

VEGETATION/ LAND COVER CLASS	LAND CLASS									
	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	NON-CENSUS WATER	TOTAL NONFOREST	CENSUS WATER	UNCLASSIFIED	ALL CLASSES
	ACRES									
CLOSED CONIFEROUS FOREST	--	4,726	14,178	18,904	--		--	--	--	18,904
CLOSED DECIDUOUS FOREST	9,452	14,178	14,178	37,809	--	--	--	--	--	37,809
OPEN FOREST	102,678	65,301	916,980	1,084,960	--	--	--	--	--	1,084,960
SHRUBLAND	--	--	--	--	868,306	--	868,306	--	--	868,306
GRASSLAND	--	--	--	--	--	--	--	--	--	--
TUNDRA	--	--	--	--	2,140,508	--	2,140,508	--	--	2,140,508
BOG	--	--	--	--	434,153	--	434,153	--	--	434,153
CULTURAL INFLUENCE	--	--	--	--	4,279	--	4,278	--	--	4,278
NONVEGETATED-BARREN	--	--	--	--	794,847	--	794,847	--	--	794,847
WATER	--	--	--	--	--	158,896	158,896	115,383	--	274,279
UNCLASSIFIED	--	--	--	--	--	--	--	--	9,412	9,412
ALL CLASSES	112,130	84,206	945,337	1,141,672	4,242,091	158,896	4,400,987	115,383	9,412	5,667,454

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 2--AREA OF FOREST LAND BY VEGETATION/LAND COVER CLASS, STAND SIZE CLASS, AND CUBIC-FOOT SITE CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

VEGETATION/ LAND COVER CLASS AND STAND SIZE CLASS	SITE CLASS (CUBIC FEET) 1/						
	1-9	10-14	15-19	20-49	50-84	UNCLASSIFIED	ALL CLASSES
				ACRES			
CLOSED CONIFEROUS FOREST, SHORT STANDS-WHITE SPRUCE:							
SAWTIMBER	--	--	--	--	--	--	--
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	--	4,726	--	--	--	4,726
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	--	4,726	--	--	--	4,726
CLOSED CONIFEROUS FOREST, TALL STANDS-WHITE SPRUCE:							
SAWTIMBER	--	9,452	--	--	--	--	9,452
POLETIMBER	4,726	--	--	--	--	--	4,726
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	4,726	9,452	--	--	--	--	14,178
CLOSED DECIDUOUS FOREST, YOUNG STANDS-DECIDUOUS/ MIXED:							
SAWTIMBER	--	--	--	--	--	--	--
POLETIMBER	--	--	4,726	--	--	--	4,726
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	--	4,726	--	--	--	4,726
CLOSED DECIDUOUS FOREST, MEDIUM AGE STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	--	--	4,726	--	--	--	4,726
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	--	4,726	--	--	--	4,726
CLOSED DECIDUOUS FOREST, OLD STANDS-DECIDUOUS/ MIXED:							
SAWTIMBER	--	4,726	--	4,726	--	--	9,452
POLETIMBER	--	--	4,726	4,726	--	--	9,452
SEEDLING AND SAPLING	--	--	4,726	--	--	--	4,726
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	4,726	9,452	9,452	--	--	23,631
CLOSED DECIDUOUS FOREST, OLD STANDS-COTTONWOOD:							
SAWTIMBER	4,726	--	--	--	--	--	4,726
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	4,726	--	--	--	--	--	4,726
OPEN CONIFEROUS FOREST, SHORT STANDS-WHITE SPRUCE:							
SAWTIMBER	72,359	--	--	--	--	--	72,359
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	97,952	4,726	--	--	--	--	102,678
NONSTOCKED AREAS	97,952	--	--	--	--	--	97,952
TOTAL	268,262	4,726	--	--	--	--	272,988

See footnotes at end of table.

TABLE 2--AREA OF FOREST LAND BY VEGETATION/LAND COVER CLASS, STAND SIZE CLASS, AND CUBIC-FOOT SITE CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980 (continued)

VEGETATION/ LAND COVER CLASS AND STAND SIZE CLASS	SITE CLASS (CUBIC FEET) 1/						
	1-9	10-14	15-19	20-49	50-84	UNCLASSIFIED	ALL CLASSES
	ACRES						
OPEN CONIFEROUS FOREST, TALL STANDS-WHITE SPRUCE:							
SAWTIMBER	9,452	37,377	--	--	--	--	46,829
POLETIMBER	--	37,377	--	--	--	--	37,377
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	9,452	74,753	--	--	--	--	84,206
OPEN CONIFEROUS FOREST, SHORT STANDS-BLACK SPRUCE:							
SAWTIMBER	--	--	--	--	--	--	--
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	65,301	32,651	--	--	--	65,301	163,253
NONSTOCKED AREAS	167,979	--	--	--	--	163,253	331,232
TOTAL	233,280	32,651	--	--	--	228,554	494,485
OPEN DECIDUOUS FOREST, MEDIUM AGE STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	--	--	--	--	--	--	--
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	32,651	--	--	--	--	--	32,651
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	32,651	--	--	--	--	--	32,651
OPEN DECIDUOUS FOREST, OLD STANDS-DECIDUOUS/MIXED:							
SAWTIMBER	--	--	--	37,377	--	--	37,377
POLETIMBER	--	32,651	--	--	--	--	32,651
SEEDLING AND SAPLING	32,651	--	--	--	--	--	32,651
NONSTOCKED AREAS	--	--	--	32,651	--	--	32,651
TOTAL	32,651	32,651	--	70,027	--	--	135,328
OPEN DECIDUOUS FOREST, MEDIUM AGE STANDS-COTTONWOOD:							
SAWTIMBER	32,651	--	--	--	--	--	32,651
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	32,651	--	--	--	--	--	32,651
OPEN DECIDUOUS FOREST, OLD STANDS-COTTONWOOD:							
SAWTIMBER	--	--	--	32,651	--	--	32,651
POLETIMBER	--	--	--	--	--	--	--
SEEDLING AND SAPLING	--	--	--	--	--	--	--
NONSTOCKED AREAS	--	--	--	--	--	--	--
TOTAL	--	--	--	32,651	--	--	32,651
ALL CLASSES	618,399	158,959	23,631	112,130	--	228,554	1,141,672

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 3--AREA OF FOREST LAND BY FOREST TYPE, STAND SIZE CLASS AND CUBIC-FOOT SITE CLASS, UPPER SUSIT
BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE AND STAND SIZE CLASS	SITE CLASS (CUBIC FEET) 1/					
	1-9	10-14	15-19	20-49	50-84	UNCLASSIFIED
				ACRES		
BLACK SPRUCE:						
SAWTIMBER		--	--	--	--	--
POLETIMBER		--	--	--	--	--
SEEDLING AND SAPLING	130,602	32,651	-	--	--	65,301
NONSTOCKED AREAS	233,280	-	--	--	--	163,253
TOTAL	363,882	32,651		--	--	228,554
WHITE SPRUCE:						
SAWTIMBER	81,811	51,555	--	4,726		--
POLETIMBER	4,726	37,377	4,726	4,726		--
SEEDLING AND SAPLING	97,952	4,726	9,452	-	--	-
NONSTOCKED AREAS	--	--	--	-	--	--
TOTAL	184,489	93,658	14,178	9,452	-	--
COTTONWOOD:						
SAWTIMBER	37,377	-	--	32,651	--	-
POLETIMBER	--	--	--	-	--	--
SEEDLING AND SAPLING	--	--	--	-	--	--
NONSTOCKED AREAS	32,651	-	-	--	--	--
TOTAL	70,027	--	--	32,651	-	--
ASPEN:						
SAWTIMBER		--	--	--	-	-
POLETIMBER	-	-	--	-	--	--
SEEDLING AND SAPLING	-	--	--	--	-	--
NONSTOCKED AREAS	--	--	-	-	-	--
TOTAL	--	--	--	--	--	--
BIRCH:						
SAWTIMBER	--	--	4,726	37,377	--	--
POLETIMBER	--	32,651	4,726	--	--	--
SEEDLING AND SAPLING	--	--	--	--	-	-
NONSTOCKED AREAS	-	-	-	32,651	--	--
TOTAL	--	32,651	9,452	70,027	-	--
ALL TYPES AND CLASSES	618,399	158,959	23,631	112,130	--	228,554

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 4--AREA OF TIMBERLAND BY CUBIC-FOOT STAND VOLUME CLASS AND FOREST TYPE, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

STAND VOLUME CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
CUBIC FEET PER ACRE			*ACRES*			
0-299	--	--	--	--	32,650	32,650
300-799	--	4,726	--	--	32,651	37,377
800-1,499	--	--	--	--	4,726	4,726
1,500-2,199	--	4,726	--	--	--	4,726
2,200 AND MORE	--	--	32,651	--	--	32,651
ALL CLASSES	--	9,452	32,651	--	70,027	112,130

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 5--AREA OF TIMBERLAND BY STAND VOLUME CLASS, INTERNATIONAL 1/4-INCH RULE, AND FOREST TYPE, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

STAND VOLUME CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
BOARD FEET, INTERNATIONAL 1/4-INCH RULE			*ACRES*			
0-299	--	--	--	--	32,650	32,650
300-799	--	--	--	--	--	--
800-1,499	--	--	--	--	--	--
1,500-2,199	--	4,726	--	--	--	4,726
2,200-2,999	--	--	--	--	--	--
3,000-4,999	--	4,726	--	--	37,377	42,103
5,000-6,999	--	--	--	--	--	--
7,000 AND OVER	--	--	32,651	--	--	32,651
ALL CLASSES	--	9,452	32,651	--	70,027	112,130

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 6--AREA OF TIMBERLAND BY CUBIC-FOOT STAND VOLUME CLASS AND CUBIC-FOOT SITE CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 198

STAND VOLUME CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
CUBIC FEET		*ACRES*		
0-299	32,650	--	--	32,650
300-799	37,377	--	--	37,377
800-1,499	4,726	--	--	4,726
1,500-2,199	4,726	--	--	4,726
2,200 AND OVER	32,651	--	--	32,651
ALL CLASSES	112,130	--	--	112,130

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 7--AREA OF TIMBERLAND BY AREA CONDITION CLASS AND FOREST TYPE, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

AREA CONDITION CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
			ACRES			
10 and 20	--	--	--	--	--	--
30 and 40	--	--	--	--	--	--
50	--	--	32,651	--	--	32,651
60	--	4,726	--	--	4,726	9,452
70	--	4,726	--	--	65,301	70,027
ALL CLASSES	--	9,452	32,651	--	70,027	112,130

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 8--NUMBER OF GROWING STOCK TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
INCHES AT BREAST HEIGHT	*THOUSAND TREES*								
1.0-2.9	284	--	284	--	--	--	--	--	284
3.0-4.9	1,121	--	1,121	--	--	--	--	--	1,121
5.0-6.9	674	--	674	229	--	--	--	229	903
7.0-8.9	379	--	379	543	--	--	415	958	1,337
9.0-10.9	550	--	550	164	--	--	--	164	713
11.0-12.9	229	--	229	99	--	--	--	99	329
13.0-14.9	75	--	75	554	--	--	--	554	629
15.0-16.9	--	--	--	122	--	--	88	210	210
17.0-18.9	--	--	--	--	--	--	--	--	--
19.0-20.9	--	--	--	--	--	--	176	176	176
21.0-22.9	--	--	--	--	--	--	185	185	185
23.0-24.9	--	--	--	--	--	--	--	--	--
25.0-26.9	--	--	--	--	--	--	176	176	176
27.0-28.9	--	--	--	--	--	--	63	63	63
29.0 AND LARGER	--	--	--	--	--	--	454	454	454
ALL CLASSES	3,312	--	3,312	1,711	--	--	1,557	3,268	6,581

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 9--NUMBER OF ROUGH TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
INCHES AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	142	-	142	142	--	--	--	142	284
3.0-4.9	--	--	--	--	--	--	--	--	--
5.0-6.9	90	--	90	--	--	--	--	--	90
7.0-8.9	--	--	--	--	--	--	--	--	--
9.0-10.9	--	--	--	638	--	--	--	638	638
11.0-12.9	--	--	--	124	--	--	--	124	124
13.0-14.9	--	--	--	284	--	--	--	284	284
15.0-16.9	--	--	--	42	-	--	--	42	42
17.0-18.9	--	--	--	--	--	--	--	--	--
19.0-20.9	--	--	--	--	--	--	--	--	--
21.0-22.9	--	--	--	--	--	--	--	--	--
23.0-24.9	--	--	--	--	--	--	--	--	--
25.0-26.9	--	--	--	--	--	--	--	--	--
27.0-28.9	--	--	--	--	--	--	--	--	--
29.0 AND LARGER	--	--	--	--	--	--	40	40	40
ALL CLASSES	232	--	232	1,230	--	--	40	1,270	1,502

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

ABLE 10--NUMBER OF ROTTEN TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

IAMETER LASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
ICHES AT REAST HEIGHT				*THOUSAND TREES*					
0-2.9	--	--	--	--	--	--	--	--	--
0-4.9	--	--	--	--	--	--	--	--	--
0-6.9	--	--	--	--	--	--	--	--	--
0-8.9	--	--	--	--	--	--	--	--	--
0-10.9	--	--	--	43	--	--	--	43	43
.0-12.9	--	--	--	161	--	--	--	161	161
.0-14.9	--	--	--	--	--	--	112	112	112
.0-16.9	--	--	--	14	--	--	--	14	14
.0-18.9	--	--	--	--	--	--	--	--	--
.0-20.9	--	--	--	--	--	--	--	--	--
.0-22.9	--	--	--	--	--	--	--	--	--
.0-24.9	--	--	--	--	--	--	--	--	--
.0-26.9	--	--	--	--	--	--	--	--	--
.0-28.9	--	--	--	--	--	--	--	--	--
.0 AND LARGER	--	--	--	--	--	--	--	--	--
ALL CLASSES	--	--	--	218	--	--	112	330	330

timates are subject to sampling error.

tals may be off because of rounding.

= no data were collected.

TABLE 11--NUMBER OF LIVE TREES ON TIMBERLAND BY DIAMETER CLASS AND SPECIES, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 198

DIAMETER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
INCHES AT BREAST HEIGHT				*THOUSAND TREES*					
1.0-2.9	425	--	425	141	--	--	--	141	567
3.0-4.9	1,121	--	1,121	--	--	--	--	--	1,121
5.0-6.9	765	--	765	229	--	--	--	229	994
7.0-8.9	379	--	379	544	--	--	414	958	1,337
9.0-10.9	550	--	550	844	--	--	--	844	1,394
11.0-12.9	230	--	230	384	--	--	--	384	614
13.0-14.9	75	--	75	838	--	--	112	950	1,025
15.0-16.9	--	--	--	178	--	--	88	266	266
17.0-18.9	--	--	--	--	--	--	--	--	--
19.0-20.9	--	--	--	--	--	--	177	177	177
21.0-22.9	--	--	--	--	--	--	185	185	185
23.0-24.9	--	--	--	--	--	--	--	--	--
25.0-26.9	--	--	--	--	--	--	176	176	176
27.0-28.9	--	--	--	--	--	--	63	63	63
29.0 AND LARGER	--	--	--	--	--	--	494	494	494
ALL CLASSES	3,545	-	3,545	3,159	--	--	1,709	4,868	8,413

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 12--NET VOLUME OF GROWING STOCK BY FOREST TYPE AND LAND CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	ALL CLASSES
			THOUSAND CUBIC FEET			
BLACK SPRUCE	--	--	12,032	12,032	--	12,032
WHITE SPRUCE	9,785	56,689	79,774	146,248	--	146,248
COTTONWOOD	143,314	54,664	2,088	200,066	--	200,066
ASPEN	--	--	--	--	--	--
BIRCH	31,465	9,561	14,322	55,348	--	55,348
UNCLASSIFIED	--	--	--	--	17,254	17,254
ALL TYPES	184,564	120,914	108,216	413,694	17,254	430,948

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 13--NET VOLUME OF SAWTIMBER BY FOREST TYPE AND LAND CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	TIMBERLAND	OTHER FOREST LAND, OPERABLE	OTHER FOREST LAND, INOPERABLE	TOTAL FOREST LAND	NONFOREST LAND	ALL CLASSES
			THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE			
BLACK SPRUCE	--	--	27,283	27,283	--	27,283
WHITE SPRUCE	24,359	251,412	211,379	487,150	--	487,150
COTTONWOOD	858,775	205,825	8,656	1,073,256	--	1,073,256
ASPEN	--	--	--	--	--	--
BIRCH	139,044	31,119	--	170,162	--	170,162
UNCLASSIFIED	--	--	--	--	88,994	88,994
ALL TYPES	1,022,178	488,356	247,318	1,757,852	88,994	1,846,846

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 14--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE
UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	--	817	--	--	437	1,254
7.0-8.9	--	2,550	--	--	3,577	6,127
9.0-10.9	--	3,293	1,399	--	976	5,667
11.0-12.9	--	1,479	1,723	--	919	4,121
13.0-14.9	--	1,282	--	--	11,594	12,876
15.0-16.9	--	364	3,773	--	2,456	6,594
17.0-18.9	--	--	--	--	--	--
19.0-20.9	--	--	10,455	--	--	10,455
21.0-22.9	--	--	14,795	--	--	14,795
23.0-24.9	--	--	--	--	--	--
25.0-26.9	--	--	18,603	--	--	18,603
27.0-28.9	--	--	7,197	--	--	7,197
29.0 AND LARGER	--	--	85,369	--	11,506	96,875
ALL CLASSES	--	9,785	143,314	--	31,465	184,564

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 15--NET VOLUME OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE,
UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*			
9.0-10.9	--	9,814	12,260	--	3,945	26,01
11.0-12.9	--	6,151	10,726	--	5,136	22,01
13.0-14.9	--	6,710	--	--	54,234	60,94
15.0-16.9	--	1,684	19,042	--	11,068	31,79
17.0-18.9	--	--	--	--	--	--
19.0-20.9	--	--	59,819	--	--	59,81
21.0-22.9	--	--	89,257	--	--	89,25
23.0-24.9	--	--	--	--	--	--
25.0-26.9	--	--	102,369	--	--	102,36
27.0-28.9	--	--	42,710	--	--	42,71
29.0 AND LARGER	--	--	522,592	--	64,661	587,25
ALL CLASSES	--	24,359	858,775	--	139,044	1,022,17

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 16--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT STAND VOLUME CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	STAND VOLUME CLASS (CUBIC FEET PER ACRE)					
	0-299	300-799	800-1,499	1,500-2,199	2,200 AND MORE	ALL CLASSES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	--	--	437	817	--	1,254
7.0-8.9	1,810	2,064	488	1,765	--	6,127
9.0-10.9	--	1,209	976	2,084	1,399	5,667
11.0-12.9	--	--	918	1,479	1,723	4,121
13.0-14.9	--	10,148	1,828	900	--	12,876
15.0-16.9	--	2,299	157	364	3,773	6,594
17.0-18.9	--	--	--	--	--	--
19.0-20.9	--	--	--	--	10,455	10,455
21.0-22.9	--	--	--	--	14,795	14,795
23.0-24.9	--	--	--	--	--	--
25.0-26.9	--	--	--	--	18,603	18,603
27.0-28.9	--	--	--	--	7,197	7,197
29.0 AND LARGER	--	11,506	--	--	85,369	96,875
ALL CLASSES	1,810	27,226	4,805	7,409	143,314	184,564

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 17--NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND CUBIC-FOO
SITE CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

TIMBER CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND CUBIC FEET			
SAWTIMBER TREES:				
SAWLOG PORTION	168,296	--	--	168,296
UPPER STEM PORTION	6,836	--	--	6,836
TOTAL	175,132	--	--	175,132
POLETIMBER TREES	9,432	--	--	9,432
ALL GROWING STOCK	184,564	--	--	184,564
ROUGH TREES:				
SAWTIMBER	11,670	--	--	11,670
POLETIMBER	6,325	--	--	6,325
TOTAL	17,995	--	--	17,995
ROTTEN TREES:				
SAWTIMBER	2,708	--	--	2,708
POLETIMBER	95	--	--	95
TOTAL	2,803	--	--	2,803
SALVABLE DEAD TREES:				
SAWTIMBER	--	--	--	--
POLETIMBER	586	--	--	586
TOTAL	586	--	--	586
ALL CLASSES	205,949	--	--	205,949

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 18--NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND DIAMETER CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

TIMBER CLASS	DIAMETER CLASS (INCHES AT BREAST HEIGHT)													
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	23.0-24.9	25.0-26.9	27.0-28.9	29.0 AND LARGER	ALL CLASSES
	THOUSAND CUBIC FEET													
SAWTIMBER TREES:														
SAWLOG PORTION	--	--	3,082	3,529	11,045	5,979	--	10,011	14,351	--	18,208	7,053	95,038	168,296
UPPER STEM PORTION	--	--	534	592	1,831	615	--	444	444	-	395	144	1,836	6,836
TOTAL	-	--	3,617	4,121	12,876	6,594	-	10,455	14,795	--	18,603	7,197	96,875	175,132
POLETIMBER TREES	1,254	6,127	2,051	--	--	--	--	--	--	--	--	--	--	9,432
ALL GROWING STOCK	1,254	6,127	5,668	4,121	12,876	6,594	-	10,455	14,795	--	18,603	7,197	96,875	184,564
ROUGH TREES:														
SAWTIMBER	--	--	--	1,059	4,328	824	-	--	--	--	--	--	5,458	11,670
POLETIMBER	251	--	6,074	--	-	--	-	--	--	--	--	--	--	6,325
TOTAL	251	--	6,074	1,059	4,328	824	--	--	--	--	--	--	5,458	17,995
ROTTEN TREES:														
SAWTIMBER	--	--	--	1,370	1,202	137	--	--	--	--	--	--	--	2,708
POLETIMBER	--	--	95	--	--	--	--	--	--	--	--	--	--	95
TOTAL	--	--	95	1,370	1,202	137	--	--	--	--	--	--	--	2,804
SALVABLE DEAD TREES:														
SAWTIMBER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
POLETIMBER	586	--	--	--	--	--	-	--	--	--	--	--	--	586
TOTAL	586	--	--	--	--	--	--	--	--	--	--	--	--	586
ALL CLASSES	2,091	6,127	11,837	6,550	18,406	7,555	--	10,455	14,795	--	18,603	7,197	102,333	205,949

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 19--NET VOLUME OF TIMBER ON TIMBERLAND BY TIMBER CLASS AND SPECIES, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

TIMBER CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
				THOUSAND CUBIC FEET					
SAWTIMBER TREES:									
SAWLOG PORTION	7,265	--	7,265	12,884	--	--	148,147	161,031	168,296
UPPER STEM PORTION	825	--	825	2,461	--	--	3,550	6,011	6,836
TOTAL	8,090	--	8,090	15,345	--	--	151,697	167,042	175,132
POLETIMBER TREES	3,188	--	3,188	4,965	--	--	1,279	6,243	9,432
ALL GROWING STOCK	11,278	--	11,278	20,310	--	--	152,976	173,285	184,564
ROUGH TREES:									
SAWTIMBER	--	--	--	6,211	--	--	5,458	11,670	11,670
POLETIMBER	251	--	251	6,074	--	--	--	6,074	6,325
TOTAL	251	--	251	12,286	--	--	5,458	17,744	17,995
ROTTEN TREES:									
SAWTIMBER	--	--	--	1,507	--	--	1,202	2,708	2,708
POLETIMBER	--	--	--	95	--	--	--	95	95
TOTAL	--	--	--	1,602	--	--	1,202	2,804	2,804
SALVABLE DEAD TREES:									
SAWTIMBER	--	--	--	--	--	--	--	--	--
POLETIMBER	586	--	586	--	--	--	--	--	586
TOTAL	586	--	586	--	--	--	--	--	586
ALL CLASSES	12,115	--	12,115	34,198	--	--	159,636	193,834	205,949

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

BLE 20--NET VOLUME OF GROWING STOCK ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, UPPER SUSITNA BLOCK, SUSITNA UNIT, ASKA, 1980

SAL BA CLASS	SOFTWOODS			HARDWOODS					
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	ALL SPECIES
UARE FEET R ACRE				*THOUSAND CUBIC FEET*					
19	--	--	--	1,810	--	--	--	1,810	1,810
-39	2,376	--	2,376	--	--	--	--	--	2,376
-59	--	--	--	12,065	--	--	12,785	24,850	24,850
-79	3,056	--	3,056	1,749	--	--	--	1,749	4,805
-9	2,725	--	2,724	4,685	--	--	--	4,685	7,409
0-119	--	--	--	--	--	--	--	--	--
0 AND OVER	3,122	--	3,122	--	--	--	140,191	140,192	143,314
ALL CLASSES	11,279	--	11,278	20,309	--	--	152,976	173,286	184,564

timates are subject to sampling error.

tals may be off because of rounding.

= no data were collected.

BLE 21--NET VOLUME OF SAWTIMBER ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 80

AL A CLASS	SOFTWOODS			HARDWOODS					
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	ALL SPECIES
ARE FEET ACRE				*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*					
-9	--	--	--	--	--	--	--	--	--
039	9,868	--	9,868	--	--	--	--	--	9,868
059	--	--	--	55,020	-	--	64,661	119,681	119,681
079	14,572	--	14,572	4,791	-	--	--	4,791	19,363
099	4,865	--	4,865	9,626	-	--	--	9,626	14,491
0-119	--	--	--	--	-	--	--	--	--
2 AND OVER	22,986	--	22,986	-	--	--	835,789	835,789	858,775
ALL CLASSES	52,291	--	52,291	69,437	-	--	900,450	969,887	1,022,178

imates are subject to sampling error.

ols may be off because of rounding.

- = no data were collected.

TABLE 22--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/			ALL CLASSES
	20-49	50-84	85-119	
	THOUSAND CUBIC FEET			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	272	--	--	272
COTTONWOOD	533	--	--	533
ASPEN	--	--	--	--
BIRCH	577	--	--	577
ALL TYPES	1,383	--	--	1,383

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 23--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY FOREST TYPE AND CUBIC-FOOT SITE CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
	THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE			
BLACK SPRUCE	--	--	--	--
WHITE SPRUCE	272	--	--	272
COTTONWOOD	15,561	--	--	15,561
ASPEN	--	--	--	--
BIRCH	2,245	--	--	2,245
ALL TYPES	18,078	--	--	18,078

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 24--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND CUBIC FEET*			
5.0-6.9	--	158	--	--	38	196
7.0-8.9	--	51	--	--	160	211
9.0-10.9	--	40	21	--	29	90
11.0-12.9	--	9	12	--	14	36
13.0-14.9	--	11	--	--	214	226
15.0-16.9	--	2	24	--	18	44
17.0-18.9	--	--	--	--	--	--
19.0-20.9	--	--	58	--	--	58
21.0-22.9	--	--	98	--	--	98
23.0-24.9	--	--	--	--	--	--
25.0-26.9	--	--	63	--	--	63
27.0-28.9	--	--	28	--	--	28
29.0 AND LARGER	--	--	228	--	104	333
ALL CLASSES	--	272	533	--	578	1,383

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 25--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND FOREST TYPE, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	BLACK SPRUCE	WHITE SPRUCE	COTTONWOOD	ASPEN	BIRCH	ALL TYPES
INCHES AT BREAST HEIGHT			*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*			
9.0-10.9	--	138	12,260	--	135	12,533
11.0-12.9	--	55	49	-	90	194
13.0-14.9	--	65	--	--	1,282	1,348
15.0-16.9	--	13	147	--	101	261
17.0-18.9	--	--	--	--	--	--
19.0-20.9	--	--	385	--	--	385
21.0-22.9	--	--	676	--	--	676
23.0-24.9	--	--	--	--	--	--
25.0-26.9	--	--	402	--	--	402
27.0-28.9	--	--	183	--	--	183
29.0 AND LARGER	--	--	1,459	--	637	2,096
ALL CLASSES	--	272	15,561	--	2,245	18,078

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 26--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE	*THOUSAND CUBIC FEET*								
1-19	--	--	--	34	--	--	--	34	34
20-39	53	--	53	--	--	--	--	--	53
40-59	--	--	--	204	--	--	217	422	422
60-79	81	--	81	40	--	--	--	40	121
80-99	183	--	183	36	--	--	--	36	219
100-119	--	--	--	--	--	--	--	--	--
120 AND OVER	33	--	33	--	--	--	500	500	533
ALL CLASSES	350	--	350	315	--	--	717	1,032	1,383

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 27--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY BASAL AREA CLASS AND SPECIES, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

BASAL AREA CLASS	SOFTWOODS			HARDWOODS					ALL SPECIES
	WHITE SPRUCE	BLACK SPRUCE	TOTAL SOFTWOODS	PAPER BIRCH	BALSAM POPLAR	QUAKING ASPEN	BLACK COTTONWOOD	TOTAL HARDWOODS	
SQUARE FEET PER ACRE	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*								
1-19	--	--	--	--	--	--	--	--	--
20-39	123	--	123	--	--	--	--	--	123
40-59	--	--	--	1,218	--	--	637	1,855	1,855
60-79	323	--	323	67	--	--	--	67	390
80-99	65	--	65	84	--	--	--	84	149
100-119	--	--	--	--	--	--	--	--	--
120 AND OVER	12,309	--	12,309	--	--	--	3,251	3,252	15,561
ALL CLASSES	12,820	--	12,820	1,369	--	--	3,889	5,258	18,078

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

TABLE 28--NET ANNUAL GROWTH OF GROWING STOCK ON TIMBERLAND BY DIAMETER CLA
AND CUBIC-FOOT SITE CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

	SITE CLASS (CUBIC FEET) 1/			
DIAMETER CLASS	20-49	50-84	85-119	ALL CLASSES
INCHES AT BREAST HEIGHT		*THOUSAND CUBIC FEET*		
5.0-6.9	196	--	--	196
7.0-8.9	211	--	--	211
9.0-10.9	90	--	--	90
11.0-12.9	36	--	--	36
13.0-14.9	226	--	--	226
15.0-16.9	44	--	--	44
17.0-18.9	--	--	--	--
19.0-20.9	58	--	--	58
21.0-22.9	98	--	--	98
23.0-24.9	--	--	--	--
25.0-26.9	63	--	--	63
27.0-28.9	28	--	--	28
29.0 AND LARGER	333	--	--	333
ALL CLASSES	1,383	--	--	1,383

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 29--NET ANNUAL GROWTH OF SAWTIMBER ON TIMBERLAND BY DIAMETER CLASS AND CUBIC-FOOT SITE CLASS, UPPER SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

DIAMETER CLASS	SITE CLASS (CUBIC FEET) 1/ 20-49	50-84	85-119	ALL CLASSES
INCHES AT BREAST HEIGHT	*THOUSAND BOARD FEET, INTERNATIONAL 1/4-INCH RULE*			
9.0-10.9	12,533	--	--	12,533
11.0-12.9	194	--	--	194
13.0-14.9	1,348	--	--	1,348
15.0-16.9	261	--	--	261
17.0-18.9	--	--	--	--
19.0-20.9	385	--	--	385
21.0-22.9	676	--	--	676
23.0-24.9	--	--	--	--
25.0-26.9	402	--	--	402
27.0-28.9	183	--	--	183
29.0 AND LARGER	2,096	--	--	2,096
ALL CLASSES	18,078	--	--	18,078

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Potential yield per acre, mean annual increment.

TABLE 30--NUMBER OF GROWING STOCK TREES, CUBIC-FOOT VOLUME PER ACRE, AND VOLUME PER
IN INTERNATIONAL 1/4-INCH RULE ON TIMBERLAND AND ALL FOREST LAND BY FOREST TYPE, UPP
SUSITNA BLOCK, SUSITNA UNIT, ALASKA, 1980

FOREST TYPE	TREES PER ACRE 1/	VOLUME PER ACRE	VOLUME PER ACRE
	NUMBER	*CUBIC FEET*	*BOARD FEET, INTERNATION 1/4-INCH RULE*
TIMBERLAND:			
BLACK SPRUCE	--	--	--
WHITE SPRUCE	156	1,035	2,577
COTTONWOOD	48	4,389	26,302
ASPEN	--	--	--
BIRCH	31	449	1,986
ALL TIMBERLAND	46	1,646	9,116
FOREST LAND:			
BLACK SPRUCE	7	19	44
WHITE SPRUCE	76	485	1,614
COTTONWOOD	53	1,948	10,453
ASPEN	--	--	--
BIRCH	69	494	1,518
ALL FOREST LAND	36	362	1,540

Estimates are subject to sampling error.

Totals may be off because of rounding.

-- = no data were collected.

1/ Trees 5.0 inches in d.b.h. and larger.

c Equivalents

1 inch = 2.54 centimeters (cm)
1 foot = 0.3048 meter (m)
1 mile = 1.609 kilometers (km)
1 acre = 0.4047 hectare (ha)
1 cubic foot = 0.0283 cubic meter (m^3)
1 cubic foot per acre = 0.069 97 cubic meter per hectare (m^3/ha)
20 cubic feet per acre = 1.3994 cubic meters per hectare (m^3/ha)
1 square foot of basal area per acre = 0.2296 square meter per hectare (m^2/ha)

ature Cited

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Viereck, Leslie A.; Little, Elbert L., Jr. Alaska trees and shrubs. Agric. Handb. 410. Washington, DC: U.S. Department of Agriculture; 1972. 265 p.

Mead, Bert R.; Setzer, Theodore S.; Carroll, Gary L.; Timber resource statistics for the Upper Susitna block, Susitna River basin multiresource inventory unit, Alaska, 1980. Resour. Bull. PNW-122. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1985. 47 p.

A multiresource inventory of the Upper Susitna block, Susitna River basin inventory unit, was conducted in 1980. Statistics on forest area, timber volumes, and annual growth from this inventory are presented. Timberland area is estimated at 112,130 acres and net growing stock volume, mostly hardwood, is 184.6 million cubic feet. Net annual growth of growing stock is estimated at 1.4 million cubic feet.

Keywords: Forest surveys, timber inventory, multiresource inventory, statistics (forest), resources (forest), Alaska (south-central).

The **Forest Service** of the U.S. Department of Agriculture is dedicated to the principle of multiple use management of the Nation's forest resources for sustained yields of wood, water, forage, wildlife, and recreation. Through forestry research, cooperation with the States and private forest owners, and management of the National Forests and National Grasslands, it strives — as directed by Congress — to provide increasingly greater service to a growing Nation.

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Production, Prices, Employment, and Trade in Northwest Forest Industries, Third Quarter 1984

Florence K. Ruderman

ABSTRACT

Ruderman, Florence K. Production, prices, employment, and trade in Northwest forest industries, third quarter 1984. Resour. Bull. PNW-123. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1985. 49 p.

Provides current information on lumber and plywood production and prices; employment in the forest industries; international trade in logs, lumber, and plywood; volume and average prices of stumpage sold by public agencies; and other related items.

Keywords: Forestry business economics, lumber prices, plywood prices, timber volume, stumpage prices, employment (forest products industries), marketing, (forest products), import/export (forest products), markets (external), economics (forestry business).

PREFACE

This report presents current information on the timber situation in Alaska, Washington, Oregon, California, Montana, Idaho, and British Columbia, including data on lumber and plywood production and prices; timber harvest; employment in forest products industries; international trade in logs, pulpwood, chips, lumber, and plywood; log prices in the Pacific Northwest; volume and average prices of stumpage sold by public agencies; and other related items.

Historical data for tne years before 1973 are in the 1979 issues of "Production, Prices, Employment, and Trade in Northwest Forest Industries."

Cooperation in supplying data has been received from the following sources: the U.S. Department of Agriculture, Forest Service, Forest Resources Economics Research Staff in Washington, D.C.; Washington State Department of Natural Resources and Employment Security Department; Oregon State Department of Forestry and Department of Employment; California State Department of Employment and Department of Conservation; Montana State Forester and State Employment Service; Idaho State Department of Public Lands and Department of Employment; Alaska State Department of Labor and Department of Natural Resources of the Division of Lands; U.S. Department of Commerce; U.S. Department of the Interior, Bureau of Land Management and Bureau of Indian Affairs; Britisn Columbia Department of Industrial Development, Trade, and Commerce; and a number of private industry associations, firms, and individuals.

The statistical data are from secondary sources and are brought together to make such information more readily available. Sources are indicated for eacn table and can be contacted directly for means used in data collection.

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TABLES INCLUDED IN THIS SERIES OF REPORTS, FREQUENCY OF PUBLICATION, AND MOST RECENT QUARTER PUBLISHED

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Softwood lumber production in Western United States by region, and U.S. softwood plywood production, 1973-84	Q	Current, Table 1
Lumber production in Northwest States, 1973-83	A	Second quarter 1984
Softwood lumber production in the inland region, by species, 1973-83	A	Second quarter 1984
Lumber production in western Washington and western Oregon, by species, 1973-83	A	Second quarter 1984
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1/ A: Published annually as data become available.
B: Published biannually as data become available.
P: Published periodically as data become available.
Q: Published quarterly as data become available.

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White fir log prices, western Washington and northwestern Oregon, 1973-83	A	Second quarter 1984
Sitka spruce log prices, western Washington and northwestern Oregon, 1973-83	A	Second quarter 1984
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Western white pine log prices, western Washington and northwestern Oregon, 1973-83	A	Second quarter 1984

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Allowable annual cut and uncut volume under contract on Bureau of Land Management lands in Oregon, 1973-84	A	First quarter 1984
Allowable annual cut and uncut volume under contract on Oregon State lands, 1973-83	A	Second quarter 1984
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Small business set-aside sales on National Forests by number and volume, Pacific Northwest Region, 1973-84	Q	Current, Table 50
Uncut volume under contract on National Forest lands in California, Montana, Idaho, Oregon, and Washington, 1973-84 (revised)	A	Current, Table 51

able 1--Softwood lumber production in Western United States by region, and U.S. softwood lywood production, 1973-84

EAR	SOFTWOOD LUMBER PRODUCTION				
	TOTAL SOFTWOOD LUMBER	WESTERN WASHINGTON AND WESTERN OREGON[1]	CALIFORNIA REDWOOD REGION	INLAND REGION[2]	U.S. SOFTWOOD PLYWOOD PRODUCTION[3]
	Million board feet				Million sq ft, 3/8-inch basis
973	22,267	9,074	2,629	10,564	18,305
974	19,425	7,777	2,675	8,973	15,878
975	17,773	7,134	2,194	8,445	16,050
976	20,611	8,322	2,500	9,789	18,440
977	21,558	8,796	2,453	10,309	19,677
978	20,780	8,845	1,902	10,033	19,936
979	20,045	8,427	1,838	9,780	20,022
980	16,045	6,815	1,617	7,613	16,573
981	15,004	6,339	1,455	7,210	17,073
982	13,851	5,174	1,342	6,735	17,150
983	17,798	7,645	1,604	8,549	20,926
984--					
January	1,588	708	156	724	1,757
February	1,468	666	147	655	1,828
March	1,845	819	153	873	1,973
Total, 1st quarter	4,901	2,193	456	2,252	5,558
April	1,813	793	157	863	1,893
May	1,600	691	150	759	1,958
June	1,668	722	158	788	1,804
Total, 2d quarter	5,081	2,206	465	2,410	5,655
July	1,469	631	122	716	1,717
August	1,590	653	156	781	2,067
September	1,499	648	152	699	1,774
Total, 3d quarter	4,558	1,932	430	2,196	5,558
October					
November					
December					
Total, 4th quarter					
1984 total					
	-3d quarter 1984 change, in percent				
om--					
d quarter 1984	-10.3	-12.4	-7.5	-8.9	-1.7
d quarter 1983	-.5R	-.3R	11.2R	-3.0R	3.0

urce--Western Wood Products Association, Portland, Oregon (western Washington and western Oregon d inland region), National Forest Products Association, Washington, D.C. (California redwood region), d American Plywood Association, Tacoma, Washington (U.S. softwood plywood data).

ncludes small amounts of hardwood.

nland region includes eastern Washington, eastern Oregon, California (except redwood region), Nevada, aho, Montana, Wyoming, Utah, Colorado, Arizona, New Mexico, and a portion of South Dakota.

ata for 1974 and 1975 are based in part on sampling.

R= revised.

Table 2--Wholesale prices of selected lumber products, 1973-84

(In dollars per thousand board feet)

YEAR	DOUGLAS-FIR STD. AND BTR., 2 BY 4 RL, 8/12', KD, NET, F.O.B. MILL	PONDEROSA PINE BOARDS, NO. 3, 1 BY 12 RL, KD, NET, F.O.B. MILL	PONDEROSA PINE, NO. 2 SHOP, 6/4 RWRL, S2S, NET, F.O.B. MILL	FIR-LARCH STD. AND BTR., 2 BY 4 RL, 8/20', KD, NET, F.O.B. MILL	SPRUCE-PINE-F STD. AND BTR 2 by 4 RL, 8/20', KD, NET, F.O.B. MI
1973	177.00	189.00	233.00	173.00	152.00
1974	144.00	162.00	247.00	136.00	120.00
1975	148.00	144.00	205.00	144.00	117.00
1976	178.00	188.00	318.00	169.00	151.00
1977	213.00	229.00	380.00	202.00	173.00
1978	241.00	263.00	459.00	238.00	209.00
1979	260.00	309.00	479.00	201.00	225.00
1980	209.00	296.00	478.00	201.00	168.00
1981	190.00	296.00	483.00	181.00	158.00
1982	167.00	253.00	357.00	160.00	141.00
1983	222.00	258.00	571.00	213.00	185.00
1984--					
January	208.25	307.25	593.75	197.00	167.25
February	219.25	327.50	590.00	207.75	187.25
March	226.00	341.00	590.00	221.60	185.80
Average, 1st quarter	217.83	325.25	591.25	208.78	180.10
April	221.75	321.25	577.50	201.67	166.50
May	198.25	303.75	528.75	183.00	146.50
June	192.60	296.00	500.00	179.60	138.60
Average, 2d quarter	204.20	307.00	535.42	188.09	150.53
July	190.75	280.00	446.25	174.75	130.25
August	193.20	268.00	405.00	187.60	140.80
September	194.75	256.50	405.00	181.50	134.50
Average, 3d quarter	192.90	268.17	418.75	181.28	135.18
October					
November					
December					
Average, 4th quarter					
1984 average					
	- 3d quarter 1984 change, in percent -				
From--					
2d quarter 1984	-5.5	-12.6	-21.8	-3.6	-10.2
3d quarter 1983	-11.9	17.1	-28.2	-10.7	-24.1

Source--Random Lengths Publications, Inc.

ble 3--Wholesale prices of selected softwood plywood products, 1973-84

n dollars per thousand square feet)

AR	SHEATHING, WESTERN EXTERIOR, 3/8-INCH, CD, NET F.O.B. MILL	SHEATHING, SOUTHERN (WEST)1/ EXTERIOR, 3/8-INCH, CD, NET F.O.B. MILL	SANDED, WESTERN INTERIOR, 1/4-INCH, AD, NET F.O.B. MILL
73	107.00	100.00	127.00
74	92.00	94.00	140.00
75	99.00	95.00	146.00
76	127.00	125.00	160.00
77	157.00	159.00	183.00
78	169.00	174.00	214.00
79	164.00	156.00	221.00
80	155.00	155.00	211.00
81	148.00	140.00	203.00
82	135.00	139.00	185.00
83	154.00	158.00	179.00
84--			
anuary	151.75	152.25	179.75
ebruary	157.00	156.50	185.25
arch	156.40	155.60	183.80
verage, 1st quarter	155.05	154.78	182.93
pril	146.25	146.75	174.75
ay	142.50	138.75	165.00
une	144.20	136.80	162.60
verage, 2d quarter	144.32	140.77	167.45
ly	143.75	144.75	162.50
ugust	158.80	156.60	170.80
eptember	158.50	155.50	168.25
verage, 3d quarter	153.68	152.28	168.18
tober			
vember			
cember			
erage, th quarter			
84 average			
	- - - - - - - - 3d quarter 1984 change, in percent - - - - - -		
m-- quarter 1984	6.5	8.2	-.4
quarter 1983	1.1	-2.4	-5.0.

rce--Random Lengths Publications, Inc.

/Texas, Louisiana, Arkansas.

Table 4--Washington and Oregon timber harvest by ownership, 1973-83

(In million board feet, Scribner scale)

STATE AND YEAR	PRIVATE	STATE	NATIONAL FOREST	BUREAU OF LAND MANAGEMENT	BUREAU OF INDIAN AFFAIRS	OTHER PUBLIC	TOTAL
Washington--							
1973	4,726	998	1,613	1	445	24	7,809
1974	4,337	685	1,290	0	452	112	6,876
1975	4,062	540	1,098	1	419	65	6,185
1976	4,414	766	1,214	3	516	55	6,968
1977	4,068	797	1,171	4	477	75	6,592
1978	4,036	955	1,261	3	460	36	6,751
1979	4,068	1,095	1,276	1/R	432	98	6,969
1980	3,507	745	1,089	0	336	43	5,720
1981	3,266	468	875	1	260	20	4,890
1982	3,740	440	726	1	152	18	5,079
1983	4,025	548	1,240	6	238	28	6,087
Oregon--							
1973	3,610	286	3,836	1,501	95	36	9,366
1974	3,822	225	3,163	1,025	11	15	8,361
1975	3,781	160	2,661	626	123	20	7,371
1976	63,561	203	3,174	1,082	108	25	8,153
1977	3,590	228	2,913	1,021	115	11	7,878
1978	3,549	235	3,235	1,039	121	22	8,201
1979	3,209	223	3,167	956	111	29	7,695
1980	3,134	186	2,399	797	105	19	6,640
1981	2,702	216	1,981	677	95	24	5,695
1982	3,440	175	1,688	312	126	17	5,758
1983	3,374	257	2,878	789	112	31	7,441

Source--Prepared by the Pacific Northwest Forest and Range Experiment Station in cooperation with the Washington Department of Natural Resources and the Oregon Department of Forestry.

1/ Less than 500,000 board feet.

R = revised.

Table 5--Montana and Idaho timber harvest by ownership, 1973-83

(In million board feet, Scribner scale)

STATE AND YEAR	PRIVATE	STATE	BUREAU OF INDIAN AFFAIRS	BUREAU OF LAND MANAGEMENT	NATIONAL FOREST	TOTAL
Montana--						
1973	429.4	23.3	98.0	2.6	564.1	1,117.4
1974	499.4	7.6	82.7	3.3	495.3	1,088.3
1975	500.9	9.8	48.6	4.8	444.5	1,008.6
1976	569.9	17.3	44.1	4.6	470.4	1,106.1
1977	556.8	18.8	46.0	5.1	498.9	1,125.6
1978	626.7	27.5	53.6	5.1	458.6	1,171.5
1979	567.5	28.3	42.6	5.4	451.7	1,095.5
1980	466.6	26.0	38.0	5.6	408.9	944.8
1981	434.0	28.9	38.0	9.1	387.3	897.3
1982	492.4	29.5	29.8	10.6	274.5	836.8
1983	568.7	27.1	14.8	37.9	569.2	1,217.7
Idaho--						
1973	642.9	169.5	9.6	5.0	826.4	1,653.4
1974	686.3	176.0	20.0	9.8	791.8	1,683.9
1975	790.8	93.1	4.2	27.1	677.5	1,592.7
1976	700.7	193.6	4.0	20.2	1,009.5	1,927.8
1977	734.8	161.5	4.1	20.9	826.5	1,747.8
1978	767.6	218.7	11.4	17.5	841.6	1,856.8
1979	784.0	162.7	8.9	15.7	833.5	1,804.8
1980	857.6	140.8	4.5	15.9	606.0	1,624.8
1981	527.7	149.5	8.6	18.9	564.0	1,268.7
1982	642.2	82.3	10.9	17.7	450.2	1,203.3
1983	727.0	155.0	19.2	21.8	791.1	1,714.1

Source--respective agencies.

Table 6--British Columbia timber harvest, 1973-84

(In thousand cubic meters)

YEAR	COAST[1/]	INTERIOR[2/]	TOTAL
1973	32,275	37,408	70,133
1974	27,878	32,207	60,085
1975	21,365	28,711	50,076
1976	32,192	37,226	62,418
1977	28,558	41,412	69,970
1978	32,328	42,835	75,163
1979	30,568	45,627	76,195
1980	30,174	44,090	74,804
1981	31,243	41,341	72,584
1982	21,352	34,879	56,231
1983	26,846	44,597	71,443
1984[3/]	20,179	35,054	55,233

Source--Ministry of Forests Annual Report, Province of British Columbia (respective years).

[1/]Comprises all of Vancouver Forest District and one-half of Prince Rupert Forest District.

[2/]Comprises Cariboo, Kamloops, Nelson, and Prince George Forest Districts and one-half of Prince Rupert Forest District.

[3/]As of September 30.

Table 7--Alaska timber harvest on public lands, by ownership, 1973-83

(In thousand board feet, Scribner scale)

			BUREAU OF LAND MANAGEMENT			NATIONAL FOREST			
YEAR	STATE	BUREAU OF INDIAN AFFAIRS	FREE USE	CUT	TOTAL	TONGASS	CHUGACH	TOTAL	TOTAL
1973	35,356	28,795	11	145	156	588,491	3,109	591,600	655,907
1974	51,241	12,083	39	114	153	544,025	5,608	549,633	613,110
1975	33,540	52	50	930	980	408,371	4,683	413,054	447,626
1976	41,714	1,011	844	295	1,139	462,776	9,402	472,178	516,042
1977	60,251	6,145	325	29	354	412,331	8,369	420,700	487,450
1978	30,301	4,040	1,862	149	2,011	398,701	9,873	408,574	444,926
1979	32,382	2,629	656	159	815	453,200	6,300	459,500	495,326
1980	47,547	17,000	484	50	534	452,121	1,565	453,686	518,767
1981	53,087	702	330	32	362	385,690	1,814	387,504	442,255
1982	35,198	2,695	NA	NA	NA	344,857	679	345,536	NA
1983	27,900	5,900	NA	NA	NA	251,177	751	251,927	NA

Source--respective agencies.

NA = not available.

Table 8--California timber harvest by ownership, 1973-83

(In million board feet, Scribner scale)

YEAR	PRIVATE[1]	STATE	BUREAU OF INDIAN AFFAIRS	BUREAU OF LAND MANAGEMENT	NATIONAL FOREST[1]	TOTAL
1973	2,813	33	51	12	2,014	4,923
1974	2,862	40	51	16	1,735	4,704
1975	2,712	35	18	46	1,523	4,334
1976	2,757	40	38	6	1,890	4,731
1977	2,964	28	38	19	1,738	4,787
1978	2,783	28	47	8	1,798	4,664
1979	2,265	26	48	18	1,727	4,084
1980	1,863	20	42	8	1,508	3,441
1981	1,722	15	22	7	1,093	2,859
1982	1,501	42	8	9	937	2,497
1983	1,890	43	14	25	1,676	3,648

Source--respective agencies.

[1]May include negligible amounts from other public lands.

Table 9--Employment in forest products industries in Washington, Oregon, and Alaska, 1973-84

(In thousands of persons)

YEAR	WASHINGTON AND OREGON			WASHINGTON			OREGON			ALASKA		
	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PULP AND ALLIED PRODUCTS
1973	155.3	127.9	27.4	66.8	49.1	17.7	88.5	78.8	9.7	--	2.3	1/
1974	152.1	124.5	27.6	67.3	49.7	17.6	84.8	74.8	10.0	--	2.5	1/
1975	137.2	110.8	26.4	60.4	43.8	16.6	76.8	67.0	9.8	--	2.0	1/
1976	150.9	123.4	27.5	68.4	51.0	17.4	82.5	72.4	10.1	3.4	2.3	1.1
1977	159.2	131.4	27.8	71.6	53.9	17.7	87.6	77.5	10.1	3.6	2.2	1.4
1978	159.3	136.5	22.8	69.1	55.1	14.0	90.2	81.4	8.8	2.9	1.8	1.1
1979	159.0	133.4	25.6	68.4	52.6	15.8	90.6	80.8	9.8	3.0	2.0	1.0
1980	144.1	116.1	28.0	64.1	46.5	17.6	80.0	69.6	10.4	3.4	2.3	1.1
1981	135.6	108.1	27.5	61.6	44.4	17.2	74.0	63.7	10.3	2.8	1.9	.9
1982	120.4	94.5	25.9	55.2	39.0	16.2	65.2	55.5	9.7	2.6	1.8	.8
1983	129.3	104.0	25.3	57.6	41.7	15.9	71.7	62.3	9.4	2.7	1.9	.8
1984--												
January	127.3	102.2	25.1	54.9	39.1	15.8	72.4	63.1	9.3	1.8	1.1	.7
February	128.4	103.3	25.1	55.8	40.0	15.8	72.6	63.3	9.3	1.8	1.1	.7
March	131.1	105.8	25.3	57.4	41.4	16.0	73.7	64.4	9.3	2.0	1.3	.7
Average, 1st quarter	128.9	103.8	25.1	56.0	40.2	15.8	72.9	63.6	9.3	1.9	1.2	.7
April	132.6	107.4	25.2	58.1	42.1	16.0	74.5	65.3	9.2	2.4R	1.7R	.7
May	133.2	107.7	25.5	58.6	42.4	16.2	74.6	65.3	9.3	2.6R	2.0	.6R
June	135.9	109.8	26.1	59.7	43.2	16.5	76.2	66.6	9.6	3.9R	2.2R	.7
Average, 2d quarter	133.9	108.3	25.6	58.8	42.6	16.2	75.1	65.7	9.4	2.6R	2.0R	.6R
July	135.3	108.7	26.6	59.4	42.5	16.9	75.9	66.2	9.7	2.5	2.0	.5
August	135.8	109.6	26.2	58.8	42.0	16.8	77.0	67.6	9.4	2.7	2.2	.5
September	133.9	108.9	25.0	57.7	41.5	16.2	76.2	67.4	8.8	2.8	2.1	.7
Average, 3d quarter	135.0	109.1	25.9	58.6	42.0	16.6	76.4	67.1	9.3	2.7	2.1	.6
October												
November												
December												
Average, 4th quarter												
1984 average												
	- 3d quarter 1984 change in employment -											
From--												
2d quarter 1984	1.1	.8	.3	-.2	-.6	.4	1.3	1.4	-.1	.1	.1R	0
3d quarter 1983	-.1R	-.6R	.5R	-.8R	-1.4R	.6R	.7R	.8R	-.1R	-.5	-2.0	-3.0

Source--State employment agencies. Includes both covered and noncovered employment. The lumber and wood products industry includes logging, lumber, plywood, poles and piling, and miscellaneous wood products (excludes furniture). The paper and allied products industry includes pulp, paper, paperboard, and building board products. Since April 1974, employment data have been based on place of residence.

1/Withheld to avoid disclosure.

R = revised.

Table 10--Employment in forest products industries in California, 1973-84

(In thousands of persons)

YEAR	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS
1973	90.2	54.1	36.1
1974	88.2	50.9	37.3
1975	87.3	52.8	34.5
1976	96.6	59.9	36.7
1977	104.2	66.6	37.6
1978	107.1	69.9	37.2
1979	107.6	68.7	39.1
1980	101.3	62.6	38.7
1981	96.6	57.9	38.7
1982	83.7	46.2	37.5
1983	87.5	50.2	37.3
1984--			
January	89.6	51.5	38.1
February	90.9	52.5	38.4
March	92.1	53.5	38.6
Average, 1st quarter	90.9	52.5	38.4
April	94.4	55.6	38.8
May	96.3	57.1	39.2
June	97.9	58.6	39.3
Average, 2d quarter	96.2	57.1	39.1
July			
August			
September			
Average, 3d quarter			
October			
November			
December			
Average, 4th quarter			
1984 average			
	- - - - 2d quarter 1984 change in employment - - -		
From--			
1st quarter 1984	5.3	4.6	.7
2d quarter 1983	9.8	7.6	2.2

Source--State of California, Department of Employment. Since April 1974, data have been based on place of residence.

Table 11--Employment in forest products industries in Montana and Idaho, 1973-84

(In thousands of persons)

YEAR	MONTANA			IDAHO	
	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS	TOTAL	LUMBER AND WOOD PRODUCTS	PAPER AND ALLIED PRODUCTS
1973	9.8	1/	16.3	15.1	1.2
1974	9.5	1/	15.7	14.6	1.1
1975	8.1	1/	16.8	15.7	1.1
1976	9.1	1/	18.6	17.4	1.2
1977	9.3	1/	19.0	17.8	1.2
1978	10.7	1/	20.1	18.8	1.3
1979	11.1	1/	19.9	18.5	1.4
1980	8.7	1/	17.5	16.1	1.4
1981	8.8	1/	16.6	15.1	1.5
1982	6.8	1/	13.6	12.1	1.5
1983	8.0	1/	15.6	14.0	1.6
1984--					
January	7.8	1/	15.6	13.9	1.7
February	7.7	1/	15.3	13.7	1.6
March	7.6	1/	14.1	12.4	1.7
Average, 1st quarter	7.7	1/	15.0	13.3	1.7
April	7.7	1/	14.0	12.4	1.6
May	7.9	1/	15.1	13.4	1.7
June	8.1	1/	16.7	15.0	1.7
Average, 2d quarter	7.9	1/	15.3	13.6	1.7
July	8.2	1/	16.5	14.8	1.7
August	8.1	1/	17.0	15.3	1.7
September	7.7	1/	16.6	14.9	1.7
Average, 3d quarter	8.0	1/	16.7	15.0	1.7
October					
November					
December					
Average, 4th quarter					
1984 average					
	- - - - - - - - - - 3d quarter 1984 change in employment - - - - - - - - - -				
From--					
2d quarter 1984	.1	1/	1.4	1.4	0
3d quarter 1983	.3R	1/	-.6R	-.6R	0

Source--State employment agencies. Since April 1974, employment data have been based on place of residence.

1/ Withheld to avoid disclosing figures for individual companies.

R = revised.

Table 12-Softwood log exports from Washington and Oregon ports, by origin, species, and destination, 1973-84

(In thousand board feet, Scribner scale)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO ALL COUNTRIES						
1973	2,639,210	864,474	20,966	1,753,770	1,833,293	555,324	1,277,969	805,917	309,150	20,966	475,801
1974	2,189,367	715,514	17,481	1,456,372	1,423,570	404,884	1,018,686	765,797	310,630	17,481	437,686
1975	2,225,487	765,640	24,361	1,435,286	1,427,387	437,290	990,097	798,100	328,550	24,361	445,189
1976	2,757,074	945,649	26,576	1,764,849	1,792,944	527,689	1,265,055	944,130	417,760	26,576	499,794
1977	2,555,615	966,763	16,721	1,572,131	1,674,860	556,419	1,118,441	880,755	410,344	16,721	453,690
1978	2,847,394	1,139,267	24,493	1,683,634	1,915,979	619,500	1,296,479	931,415	519,767	24,493	387,155
1979	3,233,652	1,309,179	22,693	1,901,780	2,249,963	732,392	1,517,571	983,689	576,787	22,693	384,209
1980	2,631,817	1,262,210	12,300	1,357,307	1,699,138	645,073	1,054,065	932,679	617,137	12,300	303,242
1981	1,987,159	1,017,154	15,520	954,485	1,315,882	579,034	736,848	671,277	438,120	15,520	217,637
1982	2,567,644	1,427,635	11,299	1,128,510	1,596,793	729,844	866,949	970,851	697,991	11,299	261,561
1983--											
1st qtr.	577,494	305,497	1,963	270,034	401,147	181,023	220,124	176,347	124,474	1,963	49,910
2d qtr.	609,527	333,481	1,486	274,960	412,019	187,493	224,526	197,908	145,988	1,486	50,434
3d qtr.	762,363	416,444	3,063	342,856	514,979	239,157	275,822	247,384	177,287	3,063	67,034
4th qtr.	641,735	362,296	2,420	277,019	411,631	188,626	223,005	230,104	173,670	2,420	54,014
1983 total	2,591,519	1,417,718	8,932	1,164,869	1,739,776	796,299	943,477	851,743	621,419	8,932	221,392
1984--											
1st qtr.	652,036	375,222	2,412	274,402	449,836	222,174	227,662	202,200	153,048	2,412	46,740
2d qtr.	760,432	444,034	3,127	313,271	487,171	235,705	251,466	273,261	208,329	3,127	61,805
3d qtr.	602,911	359,297	1,573	242,041	386,715	184,554	202,161	216,196	174,743	1,573	39,880
4th qtr.											
1984 total											
					TO JAPAN						
1973	2,455,465	822,160	20,966	1,612,359	1,663,203	520,373	1,142,830	792,262	301,787	20,966	469,529
1974	1,975,575	638,225	17,342	1,320,008	1,237,653	341,890	895,763	737,922	296,335	17,342	424,245
1975	2,014,244	732,264	24,361	1,257,619	1,255,817	410,721	845,096	758,427	321,543	24,361	412,523
1976	2,547,037	901,911	24,573	1,620,553	1,623,064	491,451	1,131,613	923,973	410,460	24,573	488,940
1977	2,346,525	933,813	16,721	1,397,791	1,496,627	526,255	970,372	851,898	407,558	16,721	427,419
1978	2,521,885	1,103,562	22,814	1,395,509	1,630,247	589,654	1,040,593	891,638	513,908	22,814	354,916
1979	2,959,726	1,279,177	20,611	1,659,938	1,998,315	705,921	1,292,394	961,411	573,256	20,611	367,544
1980	2,344,322	1,175,407	12,300	1,156,615	1,488,494	602,605	885,889	855,828	572,802	12,300	270,726
1981	1,603,941	846,474	15,495	741,972	1,003,391	452,724	550,667	600,550	393,750	15,495	191,305
1982	1,738,187	990,634	11,272	736,281	992,903	457,649	535,254	745,284	532,985	11,272	201,027
1983--											
1st qtr.	409,186	214,008	1,963	193,215	252,587	102,641	149,946	156,599	111,367	1,963	43,269
2d qtr.	418,508	241,044	1,486	175,978	253,590	122,555	131,035	164,918	118,489	1,486	44,943
3d qtr.	400,394	230,422	3,063	166,909	228,968	112,900	116,068	171,426	117,522	3,063	50,841
4th qtr.	363,198	210,242	2,420	150,536	198,539	92,341	106,198	164,659	117,901	2,420	44,338
1983 total	1,591,286	895,716	8,932	686,638	933,684	430,437	503,247	657,602	465,279	8,932	183,391
1984--											
1st qtr.	366,226	216,078	2,405	147,743	217,516	103,279	114,237	148,710	112,799	2,405	33,506
2d qtr.	478,052	300,848	3,086	174,158	261,075	127,982	133,093	217,017	172,866	3,086	41,065
3d qtr.	338,075	206,775	1,431	129,869	208,790	105,586	103,204	129,285	101,189	1,431	26,665
4th qtr											
1984 total											

Table 12-Softwood log exports from Washington and Oregon ports, by origin, species, and destination, 1973-84 (continued)

(In thousand board feet, Scribner scale)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO CANADA						
1973	72,164	22,265	--	49,899	72,164	22,265	49,899	--	--	--	--
1974	73,664	39,060	--	34,604	73,664	39,060	34,604	--	--	--	--
1975	58,506	16,793	--	41,713	58,506	16,793	41,713	--	--	--	--
1976	48,289	14,803	--	33,486	48,289	14,803	33,486	--	--	--	--
1977	15,698	9,531	--	6,167	15,698	9,531	6,167	--	--	--	--
1978	12,638	9,361	--	3,277	12,638	9,361	3,277	--	--	--	--
1979	24,124	7,737	--	16,387	24,124	7,737	16,387	--	--	--	--
1980	985	395	--	590	985	395	590	--	--	--	--
1981	1,332	392	--	940	1,332	392	940	--	--	--	--
1982	4,757	635	--	4,122	4,757	635	4,122	--	--	--	--
1983--											
1st qtr.	120	--	--	120	120	--	120	--	--	--	--
2d qtr.	3,014	397	--	2,617	3,014	397	2,617	--	--	--	--
3d qtr.	50	--	--	50	50	--	50	--	--	--	--
4th qtr.	2,032	--	--	2,032	2,032	--	2,032	--	--	--	--
1983 total	5,216	397	--	4,819	5,216	397	4,819	--	--	--	--
1984--											
1st qtr.	3,978	989	--	2,989	3,978	989	2,989	--	--	--	--
2d qtr.	3,406	975	--	2,431	3,406	975	2,431	--	--	--	--
3d qtr.	619	--	--	619	619	--	619	--	--	--	--
4th qtr.											
1984 total											
					TO SOUTH KOREA						
1973	101,929	15,175	--	86,754	96,680	12,063	84,617	5,249	3,112	--	2,137
1974	137,665	36,308	--	101,357	111,580	23,378	88,202	26,065	12,930	--	13,155
1975	79,022	13,946	--	65,076	42,100	9,100	33,000	36,922	4,846	--	32,076
1976	130,069	26,454	--	103,615	117,007	21,068	95,939	13,062	5,386	--	7,676
1977	187,967	21,201	--	166,766	162,252	20,418	141,834	25,715	783	--	24,932
1978	307,865	24,844	--	283,021	271,887	20,426	251,461	35,978	4,418	--	31,560
1979	245,314	20,342	--	224,972	227,072	18,653	208,419	18,242	1,689	--	16,553
1980	191,387	11,796	--	179,591	163,988	9,549	154,439	27,399	2,247	--	25,152
1981	147,833	10,919	--	136,914	132,675	9,333	123,342	15,158	1,586	--	13,572
1982	254,736	27,809	--	226,927	220,126	23,841	196,285	34,610	3,968	--	30,642
1983--											
1st qtr.	60,064	2,551	--	57,513	53,230	2,358	50,872	6,834	193	--	6,641
2d qtr.	79,983	11,588	--	68,395	74,359	11,407	62,952	5,624	181	--	5,443
3d qtr.	81,133	2,245	--	78,888	72,394	730	71,664	8,739	1,515	--	7,224
4th qtr.	64,458	3,004	--	61,454	59,385	1,911	57,474	5,073	1,093	--	3,980
1983 total	285,638	19,388	--	266,250	259,368	16,406	242,962	26,270	2,982	--	23,288
1984--											
1st qtr.	44,920	856	7	44,057	37,999	338	37,661	6,921	518	7	6,396
2d qtr.	81,568	1,985	--	79,583	72,293	1,306	70,987	9,275	679	--	8,596
3d qtr.	64,881	1,770	--	63,111	60,713	1,770	58,943	4,168	--	--	4,168
4th qtr.											
1984 total											
					TO MAINLAND CHINA						
1980	87,785	69,901	--	17,884	43,271	31,884	11,387	44,514	38,017	--	6,497
1981	219,237	149,592	--	69,645	170,779	111,058	59,721	48,458	38,534	--	9,924
1982	533,102	390,047	--	143,055	358,762	244,198	114,564	174,340	145,849	--	28,491
1983--											
1st qtr.	104,596	86,035	--	18,561	94,305	75,744	18,561	10,291	10,291	--	--
2d qtr.	106,859	78,958	--	27,901	79,999	52,098	27,901	26,860	26,860	--	--
3d qtr.	280,401	183,392	--	97,009	213,563	125,523	88,040	66,838	57,869	--	8,969
4th qtr.	207,384	148,635	--	58,749	147,551	94,211	53,340	59,833	54,424	--	5,409
1983 total	699,240	497,020	--	202,220	535,418	347,576	187,842	163,822	149,444	--	14,378
1984--											
1st qtr.	215,645	155,183	--	60,462	173,563	115,565	57,998	42,082	39,618	--	2,464
2d qtr.	182,437	138,523	--	43,914	135,661	103,858	31,803	46,776	34,665	--	12,111
3d qtr.	169,808	137,629	--	32,179	101,906	77,000	24,906	67,902	60,629	--	7,273
4th qtr.											
1984 total											

Source--U.S. Department of Commerce. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

Table 13--Value of softwood log exports from Washington and Oregon ports, by origin, species, and destination, 1973-84

(In thousand dollars)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO ALL COUNTRIES						
1973	694,602	209,417	15,451	469,734	449,902	120,796	329,106	244,700	88,621	15,451	140,628
1974	612,521	194,137	17,556	400,828	364,962	103,586	271,376	237,559	90,551	17,556	129,452
1975	603,854	202,377	16,758	384,759	376,706	111,919	264,787	227,148	90,418	16,758	119,972
1976	775,113	266,523	20,086	488,504	490,246	141,989	348,257	284,867	124,534	20,087	140,247
1977	826,698	311,269	17,049	498,380	526,412	171,541	354,871	300,286	139,728	17,049	143,509
1978	992,207	413,645	24,923	553,639	637,818	212,305	425,513	354,389	201,340	24,923	128,126
1979	1,408,036	624,090	24,419	831,527	991,513	331,874	659,639	488,523	292,216	24,419	171,188
1980	1,308,858	634,898	16,596	657,364	835,524	317,744	517,780	473,334	317,154	16,596	139,584
1981	882,942	476,653	24,911	381,378	565,564	266,847	298,717	317,378	209,806	24,911	82,661
1982	1,014,909	600,254	18,719	395,936	605,089	299,524	305,565	409,820	300,730	18,719	90,371
1983--											
1st qtr.	195,146	105,276	2,847	87,023	130,221	59,513	70,708	64,925	45,763	2,847	16,315
2d qtr.	209,168	117,059	1,905	90,204	138,401	64,817	73,584	70,767	52,242	1,905	16,620
3d qtr.	263,851	148,529	3,679	111,643	171,681	82,611	89,070	92,170	65,918	3,679	22,573
4th qtr.	224,271	129,314	2,576	92,381	140,215	65,370	74,845	84,056	63,944	2,576	17,536
1983 total	892,436	500,178	11,007	381,251	580,518	272,311	308,207	311,918	227,867	11,007	73,044
1984--											
1st qtr.	222,850	132,201	3,071	87,578	149,552	76,988	72,564	73,298	55,214	3,071	15,014
2d qtr.	263,351	157,996	4,081	101,274	163,942	82,223	81,719	99,409	75,773	4,081	19,555
3d qtr.	196,377	119,489	2,115	74,773	120,308	58,517	61,791	76,069	60,972	2,115	12,982
4th qtr.											
1984 total											
					TO JAPAN						
1973	664,363	201,944	15,451	446,968	422,715	115,022	307,693	241,648	86,922	15,451	139,275
1974	569,494	177,961	17,500	374,033	338,296	90,400	247,896	231,198	87,561	17,500	126,137
1975	560,754	195,469	16,758	348,527	341,885	107,149	234,736	218,869	88,320	16,758	113,791
1976	734,412	256,673	17,918	459,821	457,248	134,894	322,354	277,164	121,779	17,918	137,467
1977	776,630	303,248	17,049	456,333	484,006	164,626	319,380	292,624	138,622	17,049	136,953
1978	908,627	404,134	22,763	481,730	566,494	204,832	361,662	342,133	199,302	22,763	120,068
1979	1,387,602	612,160	22,271	753,171	910,338	323,034	587,304	477,264	289,126	22,271	165,867
1980	1,190,875	593,484	16,596	580,795	750,369	297,359	453,010	440,506	296,125	16,596	127,785
1981	740,943	404,395	24,889	311,659	451,171	213,444	237,727	289,772	190,951	24,889	73,932
1982	716,343	424,685	18,679	272,979	392,047	190,838	201,209	324,296	233,847	18,679	71,770
1983--											
1st qtr.	146,567	77,446	2,847	66,274	87,522	35,794	51,728	59,045	41,652	2,847	14,546
2d qtr.	152,519	88,469	1,905	62,145	91,862	44,781	47,081	60,657	43,688	1,905	15,064
3d qtr.	147,765	85,702	3,679	58,384	82,897	41,772	41,125	64,868	43,930	3,679	17,259
4th qtr.	136,197	79,554	2,576	54,067	73,844	34,324	39,520	62,353	45,230	2,576	14,547
1983 total	583,048	331,171	11,007	240,870	336,125	156,671	179,454	246,923	174,500	11,007	61,416
1984--											
1st qtr.	134,415	79,816	3,069	51,530	77,850	37,657	40,193	56,565	42,159	3,069	11,338
2d qtr.	174,396	110,386	4,051	59,959	93,507	46,421	47,086	80,889	63,965	4,051	12,873
3d qtr.	114,855	71,233	2,019	41,603	67,809	34,603	33,206	47,046	36,630	2,019	8,397
4th qtr.											
1984 total											

Table 13--Value of softwood log exports from Washington and Oregon ports, by origin, species, and destination, 1973-84 (continued)

(In thousand dollars)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO CANADA						
1973	9,593	2,900	--	6,693	9,593	2,900	6,693	--	--	--	--
1974	13,821	8,239	--	5,582	13,821	8,239	5,582	--	--	--	--
1975	8,313	2,937	--	5,376	8,313	2,937	5,376	--	--	--	--
1976	7,908	2,733	--	5,175	7,908	2,733	5,175	--	--	--	--
1977	3,545	2,154	--	1,391	3,545	2,154	1,391	--	--	--	--
1978	2,933	2,129	--	804	2,933	2,129	804	--	--	--	--
1979	7,223	2,435	--	4,788	7,223	2,435	4,788	--	--	--	--
1980	323	133	--	190	323	133	190	--	--	--	--
1981	463	173	--	290	463	173	290	--	--	--	--
1982	1,068	137	--	931	1,068	137	931	--	--	--	--
1983--											
1st qtr.	42	--	--	42	42	--	42	--	--	--	--
2d qtr.	734	55	--	679	734	55	679	--	--	--	--
3d qtr.	21	-	--	21	21	--	21	--	--	--	--
4th qtr.	249	--	--	249	249	--	249	--	--	--	--
1983 total	1,046	55	--	991	1,046	55	991	--	--	--	--
1984--											
1st qtr.	353	84	--	269	353	84	269	--	--	--	--
2d qtr.	1,057	321	--	736	1,057	321	736	--	--	--	--
3d qtr.	176	--	--	176	176	--	176	--	--	--	--
4th qtr.											
1984 total											
					TO SOUTH KOREA						
1973	18,506	3,468	--	15,038	17,290	2,725	14,565	1,216	743	--	473
1974	28,225	7,303	--	20,922	22,552	4,714	17,838	5,673	2,589	--	3,084
1975	14,757	2,688	--	12,069	7,912	1,648	6,264	6,845	1,040	--	5,805
1976	27,546	5,664	--	21,862	24,400	4,350	20,050	3,146	1,315	--	1,831
1977	44,949	4,811	--	40,138	38,738	4,672	34,066	6,211	139	--	6,072
1978	76,839	6,392	--	70,447	67,974	5,333	62,641	8,865	1,059	--	7,806
1979	80,173	6,982	--	73,191	73,751	6,378	67,373	6,422	604	--	5,818
1980	71,675	4,116	--	67,559	62,108	3,279	58,829	9,567	837	--	6,730
1981	47,481	4,027	--	43,454	43,048	3,513	39,535	4,433	514	--	3,919
1982	76,415	9,169	--	67,246	66,657	8,136	58,521	9,758	1,033	--	8,725
1983--											
1st qtr.	16,208	843	--	15,365	14,391	795	13,596	1,817	48	--	1,769
2d qtr.	22,775	3,224	--	19,551	21,177	3,159	18,018	1,598	65	--	1,533
3d qtr.	25,787	616	--	25,171	22,689	177	22,512	3,098	439	--	2,659
4th qtr.	20,006	798	--	19,208	18,450	499	17,951	1,556	299	--	1,257
1983 total	84,776	5,481	--	79,295	76,707	4,630	72,077	8,069	851	--	7,218
1984--											
1st qtr.	13,097	263	2	12,832	11,194	123	11,071	1,903	140	2	1,761
2d qtr.	24,127	357	--	23,570	21,214	340	20,874	2,914	417	--	2,697
3d qtr.	19,286	545	--	18,741	17,821	545	17,276	1,465	--	--	1,465
4th qtr.											
1984 total											
					TO MAINLAND CHINA						
1980	41,433	34,285	--	7,148	21,326	16,692	4,634	20,107	17,593	--	2,514
1981	88,000	63,977	--	24,023	67,639	47,363	20,276	20,361	16,614	--	3,747
1982	207,078	158,699	--	48,379	138,219	99,194	39,025	68,859	59,505	--	9,354
1983--											
1st qtr.	31,285	26,108	--	5,177	28,007	22,830	5,177	3,278	3,278	--	--
2d qtr.	32,554	24,756	--	7,798	24,254	16,456	7,798	8,300	8,300	--	--
3d qtr.	90,005	61,938	--	28,067	66,071	40,659	25,412	23,934	21,279	--	2,655
4th qtr.	66,614	48,814	--	17,800	46,650	30,504	16,146	19,964	18,310	--	1,654
1983 total	220,458	161,616	--	58,842	164,982	110,449	54,533	55,476	51,167	--	4,309
1984--											
1st qtr.	68,760	51,348	--	17,412	55,232	38,471	16,761	13,529	12,877	--	651
2d qtr.	59,338	46,112	--	13,226	43,910	34,649	9,261	15,428	11,463	--	3,965
3d qtr.	53,191	43,566	--	9,625	30,302	23,276	7,026	22,889	20,290	--	2,599
4th qtr.											
1984 total											

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

Note: Individual columns may not add to totals because of rounding.

Table 14--Average value of softwood logs exported from Washington and Oregon ports, by origin, species, and destination, 1973-84

(In dollars per thousand board feet, Scribner scale)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO ALL COUNTRIES						
1973	263.19	242.25	736.97	267.84	245.41	217.52	257.52	303.63	286.66	736.97	295.56
1974	279.77	271.33	1,004.29	275.22	263.40	255.84	266.40	310.21	291.51	1,004.29	295.76
1975	271.34	264.20	687.90	268.07	263.91	255.94	267.43	284.61	275.20	687.90	269.49
1976	283.19	281.84	755.83	276.80	273.43	268.98	275.29	301.73	298.10	755.83	280.61
1977	323.48	321.97	1,019.62	317.01	314.30	308.29	317.26	340.94	340.51	1,019.62	316.32
1978	348.46	363.08	1,017.56	328.84	332.89	342.70	328.21	380.48	387.37	1,017.56	330.94
1979	435.43	476.70	1,076.06	437.24	440.68	453.14	434.67	496.62	506.62	1,076.06	445.56
1980	497.32	503.00	1,349.27	484.32	491.73	492.57	491.22	507.50	513.91	1,349.27	460.31
1981	444.32	468.61	1,605.09	399.56	429.80	460.85	405.40	472.80	478.88	1,605.09	379.81
1982	395.27	420.40	1,656.70	350.88	378.94	410.40	352.46	422.12	430.85	1,656.70	345.51
1983--											
1st qtr.	337.92	344.61	1,450.33	322.27	324.62	328.76	321.22	368.17	367.65	1,450.33	326.88
2d qtr.	342.94	351.02	1,282.24	328.06	335.91	345.70	327.73	357.58	357.85	1,282.24	329.54
3d qtr.	346.10	356.66	1,201.21	325.63	333.37	345.42	322.92	372.58	371.82	1,201.21	336.74
4th qtr.	349.48	356.93	1,064.65	333.48	340.63	346.56	335.62	365.30	368.19	1,064.65	324.65
1983 average	344.37	352.81	1,232.31	327.29	333.67	341.97	326.67	366.21	366.69	1,232.31	329.93
1984--											
1st qtr.	341.78	352.33	1,273.02	319.16	332.46	346.52	318.74	362.50	360.76	1,273.02	321.22
2d qtr.	346.32	355.82	1,305.24	323.28	336.52	348.84	324.97	363.79	363.72	1,305.24	316.39
3d qtr.	325.72	332.56	1,344.44	308.93	311.10	317.07	305.65	351.85	348.92	1,344.44	325.53
4th qtr.											
1984 average											
					TO JAPAN						
1973	270.56	245.63	736.97	277.21	254.16	221.04	269.24	305.00	288.03	736.97	296.63
1974	288.27	278.84	1,009.12	283.36	273.34	264.41	276.74	313.31	295.48	1,009.12	297.32
1975	278.39	266.94	687.90	277.13	272.24	260.88	277.76	288.58	274.68	687.90	275.84
1976	288.34	284.59	729.17	283.74	281.72	274.48	284.86	299.97	296.69	729.17	281.15
1977	330.72	324.74	1,019.62	326.47	323.40	312.83	329.13	343.58	340.13	1,019.62	320.42
1978	360.30	366.21	997.76	345.20	347.49	347.38	347.55	383.71	387.82	997.76	338.30
1979	468.83	478.56	1,080.54	453.73	455.55	457.61	454.43	496.42	504.36	1,080.54	451.28
1980	507.98	504.92	1,349.27	502.15	504.11	493.35	511.36	514.71	516.98	1,349.27	472.01
1981	461.95	477.74	1,606.26	420.04	449.65	471.47	431.71	482.51	484.95	1,606.26	386.46
1982	412.12	428.70	1,657.12	370.75	394.85	417.00	375.91	435.13	438.75	1,657.12	357.02
1983--											
1st qtr.	358.19	361.88	1,450.33	343.01	346.50	348.73	344.98	377.05	374.01	1,450.33	336.18
2d qtr.	364.44	367.03	1,282.24	353.14	362.25	365.40	359.30	367.80	368.71	1,282.24	335.17
3d qtr.	369.06	371.93	1,201.21	349.79	362.04	369.99	354.32	378.41	373.81	1,201.21	339.47
4th qtr.	374.99	378.39	1,064.65	359.17	371.94	371.71	372.14	378.68	383.62	1,064.65	328.09
1983 average	366.40	369.73	1,232.31	350.80	360.00	363.98	356.59	375.49	375.04	1,232.31	334.89
1984--											
1st qtr.	367.03	369.38	1,275.91	348.78	357.90	364.61	351.84	380.37	373.75	1,275.91	338.38
2d qtr.	364.78	366.92	1,312.71	344.28	358.16	362.72	353.78	372.73	370.03	1,312.71	313.48
3d qtr.	339.73	344.49	1,411.24	320.35	324.77	327.72	321.75	363.90	361.99	1,411.24	314.90
4th qtr.											
1984 average											

Table 14--Average value of softwood logs exported from Washington and Oregon ports, by origin, species, and destination, 1973-84 (continued)

(In dollars per thousand board feet, Scribner scale)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT			FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	OTHER SOFTWOODS	ALL SPECIES	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
					TO CANADA						
1973	132.94	130.26	--	134.14	132.94	130.26	134.14	--	--	--	--
1974	187.62	210.93	--	161.31	187.62	210.93	161.31	--	--	--	--
1975	142.09	174.89	--	128.88	142.09	174.89	128.88	--	--	--	--
1976	163.76	184.62	--	154.54	163.76	184.62	154.54	--	--	--	--
1977	225.82	226.00	--	225.56	225.82	226.00	225.56	--	--	--	--
1978	232.08	227.43	--	245.35	232.08	227.43	245.35	--	--	--	--
1979	299.41	314.72	--	292.78	299.41	314.72	292.18	--	--	--	--
1980	327.92	336.71	--	322.03	327.92	336.71	322.03	--	--	--	--
1981	347.60	441.33	--	308.51	347.60	441.33	308.51	--	--	--	--
1982	224.51	215.75	--	225.86	224.51	215.75	225.86	--	--	--	--
1983--											
1st qtr.	346.55	--	--	346.55	346.55	--	346.55	--	--	--	--
2d qtr.	243.55	137.46	--	259.64	243.55	137.46	259.64	--	--	--	--
3d qtr.	412.10	--	--	412.10	412.10	--	412.10	--	--	--	--
4th qtr.	122.32	--	--	122.32	122.32	--	122.32	--	--	--	--
1983 average	200.35	138.54	--	205.44	200.35	137.46	205.44	--	--	--	--
1984--											
1st qtr.	88.68	85.07	--	89.88	88.68	85.07	89.88	--	--	--	--
2d qtr.	310.49	329.35	--	302.92	310.49	329.35	302.92	--	--	--	--
3d qtr.	284.70	--	--	284.70	284.70	--	284.70	--	--	--	--
4th qtr.											
1984 average											
					TO SOUTH KOREA						
1973	181.54	228.47	--	173.34	178.83	225.89	172.12	231.52	238.47	--	221.40
1974	205.03	201.12	--	206.43	202.12	201.62	202.26	217.47	200.23	--	234.41
1975	186.74	192.74	--	185.46	187.93	181.10	189.82	185.39	214.61	--	180.98
1976	211.78	214.11	--	211.19	208.53	206.47	208.93	240.77	244.77	--	238.54
1977	239.13	226.92	--	240.68	238.75	228.82	240.18	241.53	177.52	--	243.54
1978	249.59	257.28	--	249.02	250.01	261.09	249.11	246.40	239.70	--	247.34
1979	326.82	343.23	--	325.33	324.79	341.93	323.26	352.05	357.61	--	351.48
1980	374.50	348.93	--	376.18	378.74	343.39	380.92	349.17	372.50	--	347.09
1981	321.18	368.81	--	317.38	324.46	376.41	320.53	292.45	324.29	--	288.76
1982	299.98	329.71	--	296.33	302.81	341.26	298.14	281.94	260.32	--	284.74
1983--											
1st qtr.	269.84	330.54	--	267.15	270.36	337.14	267.26	265.85	250.01	--	266.31
2d qtr.	284.75	278.24	--	285.85	284.80	276.99	286.22	284.04	357.48	--	281.60
3d qtr.	317.84	274.32	--	319.08	313.41	241.77	314.13	354.58	290.00	--	368.13
4th qtr.	310.38	265.82	--	312.56	310.68	261.18	312.33	306.85	273.93	--	315.89
1983 average	296.80	282.70	--	297.82	295.74	282.21	296.66	307.16	285.38	--	309.95
1984--											
1st qtr.	291.55	306.77	281.14	291.26	294.59	362.96	293.97	274.91	270.10	281.14	275.29
2d qtr.	295.80	280.75	--	296.17	293.44	260.48	294.05	314.16	319.94	--	313.71
3d qtr.	297.26	308.03	--	296.95	293.54	308.03	293.10	351.43	--	--	351.43
4th qtr.											
1984 average											
					TO MAINLAND CHINA						
1980	471.98	490.48	--	399.69	492.85	523.52	406.96	451.70	462.77	--	386.95
1981	401.39	427.68	--	344.94	396.06	426.47	339.51	420.18	431.15	--	377.57
1982	388.44	406.87	--	338.18	385.27	406.20	340.64	394.97	407.99	--	328.31
1983--											
1st qtr.	299.10	303.46	--	278.91	296.98	301.41	278.91	318.50	318.50	--	--
2d qtr.	304.65	313.54	--	279.48	303.18	315.87	279.48	309.02	309.02	--	--
3d qtr.	320.99	337.73	--	289.32	309.37	323.92	288.64	358.09	367.71	--	296.02
4th qtr.	321.22	328.42	--	303.00	316.16	323.78	302.71	333.67	336.44	--	305.84
1983 average	315.28	325.17	--	290.98	308.14	317.77	290.31	338.64	342.38	--	299.69
1984--											
1st qtr.	318.86	330.89	--	287.98	318.22	332.89	288.99	321.48	325.04	--	264.26
2d qtr.	325.25	332.88	--	301.18	323.68	333.62	291.21	329.82	330.69	--	327.35
3d qtr.	313.24	316.54	--	299.13	297.36	302.28	282.12	337.09	334.65	--	357.37
4th qtr.											
1984 average											

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

Table 15--Softwood log exports from northern California ports, by species and destination, 1973-84[1]

(In thousand board feet, Scribner scale)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	PORT-ORFORD-CEDAR	OTHER SOFTWOODS
		TO ALL COUNTRIES		
1973	104,733	34,454	4,065	66,214
1974	77,735	35,146	8,823	33,766
1975	86,943	52,547	2,483	31,913
1976	109,812	73,924	2,508	33,380
1977	70,902	38,302	2,331	30,269
1978	72,650	49,024	2,880	20,746
1979	65,492	37,551	1,611	26,330
1980	31,672	7,267	653	23,732
1981	25,586	5,890	1,381	18,315
1982	19,507	12,609	6	6,892
1983--				
1st quarter	9,263	2,675	300	6,288
2d quarter	4,414	951	--	3,463
3d quarter	8,401	2	--	8,399
4th quarter	11,441	15	--	11,426
1983 total	33,519	3,643	300	29,576
1984--				
1st quarter	11,858	6,075	488	5,295
2d quarter	633	4	--	629
3d quarter	11,716	1,004	--	10,712
4th quarter				
1984 total	11,858	6,075	488	5,295
		TO JAPAN		
1973	94,520	29,261	4,065	61,194
1974	69,271	32,485	8,823	27,963
1975	76,813	48,188	2,483	28,142
1976	96,485	69,395	2,853	24,237
1977	57,815	37,765	2,331	17,719
1978	58,760	48,653	1,757	8,350
1979	57,938	37,411	1,611	18,916
1980	27,180	7,055	653	19,472
1981	20,708	1,024	1,381	18,303
1982	9,022	3,270	6	5,746
1983--				
1st quarter	9,261	2,675	300	6,286
2d quarter	4,414	951	--	3,463
3d quarter	3,899	--	--	3,899
4th quarter	6,734	--	--	6,734
1983 total	24,308	3,626	300	20,382
1984--				
1st quarter	5,774	1,950	488	3,336
2d quarter	629	—	--	629
3d quarter	7,416	1,004	--	6,412
4th quarter				
1984 total				
		TO MAINLAND CHINA		
1982	9,292	9,282	--	10
1983--				
1st quarter	2	--	--	2
2d quarter	—	--	--	--
3d quarter	4,500	--	--	4,500
4th quarter	3,800	--	--	3,800
1983 total	8,302	--	--	8,302
1984--				
1st quarter	3,500	3,500	--	--
2d quarter	--	--	--	--
3d quarter	3,600	--	--	3,600
4th quarter				
1984 total				

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Northern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

Table 16—Softwood log exports by State and port, Washington, Oregon, and northern California, 1973-84

(In million board feet, Scribner scale)

YEAR AND QUARTER	STATE OF WASHINGTON[1]									
	ABERDEEN	ANACORTES, BELLINGHAM	EVERETT	LONGVIEW	OLYMPIA	PORT ANGELES	TACOMA	NORTHEASTERN WASHINGTON	OTHER	TOTAL
1973	491.5	84.5	250.4	328.7	86.9	306.0	511.1	0	54.6	2,113.7
1974	396.2	49.2	217.7	300.2	61.5	273.5	383.0	--	48.4	1,729.7
1975	366.8	32.2	230.0	261.3	48.6	284.7	469.2	--	32.9	1,725.7
1976	502.1	30.6	277.2	397.4	7.5	324.5	623.7	0	28.5	2,191.4
1977	402.1	42.1	237.7	328.2	68.7	304.6	607.6	--	12.0	2,003.0
1978	512.2	41.1	321.8	325.8	87.1	387.2	559.7	--	7.0	2,241.0
1979	648.7	50.9	332.8	366.1	101.0	505.0	601.7	--	9.9	2,616.1
1980	498.2	38.0	287.3	387.0	80.2	295.1	497.1	.1	3.1	2,086.1
1981	414.3	16.7	208.4	215.9	47.3	168.0	446.2	.1	14.9	1531.8
1982	552.3	11.0	310.3	374.5	62.6	152.6	494.1	--	13.9	1,971.3
1983--										
1st quarter	154.0	.2	61.0	67.8	12.3	47.0	126.4	--	.2	468.9
2d quarter	151.5	--	65.4	85.4	12.4	46.9	135.6	0	.2	497.4
3d quarter	200.8	.9	94.7	83.3	10.3	55.3	152.8	--	.1	598.2
4th quarter	151.8	5.6	71.4	81.8	5.4	51.4	125.9	0	.1	493.4
1983 total	658.1	6.7	292.5	318.3	40.4	200.6	540.7	—	.6	2057.9
1984--										
1st quarter	151.6	7.7	72.9	85.8	23.2	62.2	131.0	0	1.3	535.7
2d quarter	196.5	5.8	79.9	106.3	23.8	68.3	112.8	.1	0	593.5
3d quarter	137.4	6.1	57.3	77.2	4.8	49.8	243.9	0	.4	576.9
4th quarter										
1984 total										

YEAR AND QUARTER	STATE OF OREGON[1]					NORTHERN CALIFORNIA[2]				
	ASTORIA	COOS BAY	PORTLAND	OTHER	TOTAL	EUREKA	SACRAMENTO	STOCKTON	OTHER	TOTAL
1973	147.1	155.5	159.8	21.3	483.7	79.6	16.2	8.7	.2	140.7
1974	159.0	128.1	139.8	24.8	451.7	67.5	9.8	3.8	.2	81.3
1975	245.7	134.1	137.5	44.5	561.8	66.6	19.9	0	1.4	87.9
1976	273.3	144.6	99.5	28.0	545.4	83.7	26.1	0	--	109.8
1977	210.2	120.1	207.0	15.4	552.7	39.2	25.5	0	6.3	71.0
1978	168.4	145.1	277.0	15.0	605.5	46.1	18.4	--	8.2	72.7
1979	150.1	128.2	322.0	17.2	617.5	43.0	6.0	0	16.5	65.6
1980	134.7	135.2	275.8	0	545.7	14.9	3.9	.5	12.3	31.6
1981	73.3	113.8	268.2	0	455.3	6.6	13.3	0	5.6	25.5
1982	93.3	191.1	309.5	2.3	596.2	16.0	.7	0	1.2	17.9
1983--										
1st quarter	17.1	38.6	52.9	0	108.6	3.0	6.3	0	0	9.3
2d quarter	15.4	31.5	65.6	0	112.5	4.4	0	0	--	4.4
3d quarter	17.2	37.8	108.0	1.1	164.1	5.8	2.6	0	--	8.4
4th quarter	19.3	45.6	83.4	0	148.3	3.9	7.4	0	.1	11.4
1983 total	69.0	153.5	309.9	1.1	533.5	17.1	16.3	0	.1	33.5
1984--										
1st quarter	11.2	54.2	51.0	0	116.4	8.9	3.0	0	--	11.9
2d quarter	23.0	67.3	73.3	3.3	166.93	0	.3	0	.3	.6
3d quarter	14.3	46.0	74.4	4.2	138.9	6.8	2.1	0	2.8	11.7
4th quarter										
1984 total										

Source—U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

Note: Individual columns may not add to totals because of rounding.

[1]State totals as presented here for Washington and Oregon do not agree with those in table 12 because customs districts as used in table 12 do not correspond to State boundaries.

[2]Northern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

able 17--Average value of softwood log exports by State and port, Washington, Oregon, and northern California, 1973-84

In dollars per thousand board feet, Scribner scale)

	STATE OF WASHINGTON[1]									
EAR AND UARTER	ABERDEEN	ANACORTES, BELLINGHAM	EVERETT	LONGVIEW	OLYMPIA	PORT ANGELES	TACOMA	NORTHEASTERN WASHINGTON	OTHER	AVERAGE
973	264.23	211.35	258.69	288.82	284.15	215.32	262.90	0	229.45	257.80
974	266.16	261.07	257.85	292.13	282.38	246.79	274.24	--	262.10	268.58
975	256.17	297.84	273.29	280.90	273.90	253.46	266.63	--	279.01	266.30
976	269.90	293.96	287.08	302.53	302.53	261.25	277.21	0	252.97	277.26
977	311.97	296.28	309.82	336.01	331.68	294.59	327.76	--	263.80	317.86
978	332.92	295.77	334.87	379.57	347.93	319.97	340.91	--	344.67	339.68
979	452.52	376.18	455.44	518.19	499.12	424.46	428.19	--	492.38	451.64
980	490.53	414.44	473.47	506.59	510.63	472.08	523.11	280.95	538.84	495.76
981	394.52	461.88	412.74	462.85	447.21	396.82	473.08	307.74	3.06	428.32
982	354.51	374.42	366.86	420.02	358.61	362.47	429.08	--	372.14	388.57
983--										
1st quarter	303.16	333.33	330.21	356.07	409.69	352.28	329.46	371.54	371.31	329.36
2d quarter	312.44	--	334.46	356.59	457.21	325.38	354.57	0	876.79	339.46
3d quarter	316.65	497.76	352.59	355.10	405.86	324.84	340.57	590.21	416.59	336.40
4th quarter	324.25	343.91	358.44	374.72	278.90	343.10	351.42	0	334.42	346.28
1983 average	314.28	364.25	345.30	361.03	405.78	336.07	344.01	442.46	623.79	337.90
984--										
1st quarter	319.92	270.48	345.23	373.38	321.18	331.62	346.24	0	298.73	339.02
2d quarter	327.90	348.52	334.40	364.83	345.52	333.24	352.52	250.12	655.67	341.58
3d quarter	303.30	297.27	315.77	336.34	326.85	324.58	168.16	0	277.81	253.77
4th quarter										
1984 average										

	STATE OF OREGON[1]					NORTHERN CALIFORNIA[2]				
EAR AND UARTER	ASTORIA	COOS BAY	PORTLAND	OTHER	AVERAGE	EUREKA	SACRAMENTO	STOCKTON	OTHER	AVERAGE
973	321.16	348.95	289.64	257.16	316.88	219.99	226.77	296.78	363.54	227.72
974	300.21	363.95	302.18	291.33	318.41	295.56	317.05	328.16	252.62	299.55
975	236.89	349.97	316.25	271.48	286.03	256.07	368.11	0	452.10	284.62
976	267.63	372.46	337.44	253.76	307.45	292.15	367.73	0	--	312.31
977	338.29	409.01	328.22	318.00	349.32	333.34	337.06	0	338.45	335.14
978	325.32	512.44	366.77	330.78	389.23	353.99	362.18	--	372.07	358.09
979	461.34	592.98	455.51	381.59	483.38	336.29	393.19	0	447.84	369.65
980	452.99	604.08	488.22	0	508.23	462.98	485.28	379.65	535.17	492.37
981	340.14	635.05	448.55	0	477.76	537.93	492.22	0	422.02	488.61
982	325.14	501.04	404.96	420.00	423.35	334.72	279.64	0	469.52	342.13
983--										
1st quarter	296.53	434.13	357.26	0	375.04	424.42	378.55	0	0	396.64
2d quarter	280.88	392.41	358.59	0	357.45	251.83	0	0	--	254.78
3d quarter	321.86	427.56	375.45	320.00	381.45	305.82	424.66	0	553.00	342.70
4th quarter	309.29	393.86	353.46	0	360.10	320.06	344.67	0	866.02	340.36
1983 average	302.95	411.99	362.85	320.00	369.15	315.41	370.37	0	1,028.53	345.23
984--										
1st quarter	294.17	361.57	360.14	0	354.48	434.29	517.85	0	375.00	454.99
2d quarter	305.14	383.58	365.89	289.36	363.12	0	341.85	0	462.34	402.76
3d quarter	319.71	357.27	373.19	310.12	360.48	277.49	350.00	0	313.82	299.20
4th quarter										
1984 average										

urce--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

tate averages as presented here for Washington and Oregon do not agree with those in table 14 because customs districts as used in table 14 not correspond to State boundaries.

orthern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

Table 18--Volume and average value of softwood log exports from Alaska ports by destination, 1973-84

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

YEAR AND QUARTER	VOLUME	AVERAGE VALUE
	TO ALL COUNTRIES	
1973	71,719	248.23
1974	34,949	240.82
1975	29,011	307.97
1976	26,197	224.59
1977	52,377	263.54
1978	68,025	320.45
1979	128,597	470.97
1980	160,523	532.56
1981	149,187	480.54
1982	241,123	478.49
1983--		
1st quarter	33,522	404.75
2d quarter	63,788	440.78
3d quarter	102,655	430.70
4th quarter	62,254	412.64
1983 total and average value	262,219	425.55
1984--		
1st quarter	49,178	386.93
2d quarter	55,176	421.55
3d quarter	71,016	409.53
4th quarter		
1984 total and average value		
	TO JAPAN	
1973	71,705	248.24
1974	29,088	252.71
1975	24,311	352.29
1976	20,741	253.18
1977	46,897	278.99
1978	57,653	343.49
1979	120,753	475.21
1980	156,275	533.22
1981	141,209	491.44
1982	219,700	486.71
1983--		
1st quarter	28,469	421.84
2d quarter	56,182	462.00
3d quarter	79,058	463.03
4th quarter	47,996	442.65
1983 total and average value	211,705	452.60
1984--		
1st quarter	34,581	430.66
2d quarter	49,225	437.89
3d quarter	66,781	413.11
4th quarter		
1984 total and average value		
	TO MAINLAND CHINA	
1981	3,205	377.57
1982	0	--
1983--		
1st quarter	0	--
2d quarter	0	--
3d quarter	7,275	293.94
4th quarter	8,316	314.98
1983 total and average value	15,591	305.16
1984--		
1st quarter	0	--
2d quarter	0	--
3d quarter	0	--
4th quarter		
1984 total and average value		

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Data are compiled from Department of Commerce records at the end of each quarter.

Table 19--Volume and value of hardwood log exports from ports of Washington, Oregon, Alaska, and northern California, 1973-84

(Volume in thousand board feet, Scribner scale; value in dollars)

YEAR AND QUARTER	WASHINGTON CUSTOMS DISTRICT		OREGON CUSTOMS DISTRICT		ALASKA CUSTOMS DISTRICT		SAN FRANCISCO CUSTOMS DISTRICT	
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
				TO ALL COUNTRIES				
1973	1,812	1,351,759	36	57,747	0	--	1,084	2,330,761
1974	633	1,121,192	45	95,342	D	—	560	1,515,476
1975	1,599	637,455	73	103,519	0	--	3,911	780,853
1976	3,750	1,646,972	236	136,188	0	--	659	1,239,777
1977	2,735	2,117,386	189	87,839	0	--	1,396	2,751,996
1978	2,362	2,190,449	75	91,486	11	19,250	1,772	4,088,466
1979	2,597	2,216,256	341	420,741	138	253,716	1,272	3,049,981
1980	6,826	5,153,711	2,026	764,511	186	44,960	900	2,260,961
1981	3,416	3,173,191	439	470,373	0	--	683	1,422,547
1982	3,788	2,894,801	335	217,463	0	--	623	1,364,227
1983--								
1st quarter	1,926	1,000,110	34	60,676	0	--	32	73,503
2d quarter	719	486,610	7	9,100	0	—	20	16,787
3d quarter	477	422,808	222	73,327	0	--	166	126,392
4th quarter	1,320	720,183	111	27,750	0	—	23	11,625
1983 total	4,442	2,629,711	374	170,853	0	--	241	228,307
1984--								
1st quarter	728	999,977	102	163,820	D	--	94	200,418
2d quarter	3,303	1,745,830	235	414,494	31	52,163	130	273,052
3d quarter	860	462,054	78	149,534	0	--	12	14,200
4th quarter								
1984 total								
				TO JAPAN				
1973	993	1,164,704	34	56,842	0	--	1,015	2,250,213
1974	540	1,063,245	37	84,293	0	--	485	1,093,502
1975	1,210	562,583	14	9,039	0	—	3,803	636,796
1976	3,313	1,416,317	235	134,988	0	--	456	1,005,649
1977	1,444	1,179,616	17	33,347	0	--	1,063	2,300,667
1978	1,178	819,332	57	84,025	0	--	1,248	3,059,204
1979	1,824	1,153,644	300	359,119	74	188,389	1,059	2,339,089
1980	4,786	1,969,245	1,964	726,891	182	42,200	579	1,532,496
1981	2,037	2,162,473	229	264,161	0	--	310	742,998
1982	1,465	1,212,079	35	64,504	0	--	417	911,992
1983--								
1st quarter	529	495,749	22	22,516	0	--	32	73,503
2d quarter	174	176,659	7	9,100	0	--	20	16,787
3d quarter	296	153,970	100	25,000	D	—	9	8,960
4th quarter	257	92,030	100	25,000	0	--	D	--
1983 total	1,256	918,408	229	81,616	D	--	61	99,250
1984--								
1st quarter	223	169,355	54	51,735	D	--	57	104,040
2d quarter	2,499	903,303	222	394,964	0	—	95	196,902
3d quarter	138	56,292	49	121,276	0	—	0	--
4th quarter								
1984 total								
				TO MAINLAND CHINA				
1980	6	2,800	0	—	0	--	—	--
1981	0	--	0	--	0	--	0	--
1982	45	45,000	0	--	0	--	0	--
1983--								
1st quarter	0	--	0	—	0	--	0	--
2d quarter	0	--	0	--	0	--	0	—
3d quarter	0	—	100	22,500	0	--	0	--
4th quarter	0	--	D	--	0	--	0	—
1983 total	0	--	100	22,500	0	--	0	--
1984--								
1st quarter	0	--	0	--	D	--	0	--
2d quarter	0	--	0	--	0	--	D	—
3d quarter	0	--	0	--	0	--	0	--
4th quarter								
1984 total								

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Data are compiled from Department of Commerce records at the end of each quarter. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. Alaska Customs District is the State of Alaska. San Francisco Customs District includes Monterey and all ports north of Monterey, California.

Table 20--Log exports from southern California ports, by species, 1973-84

(In thousand board feet, Scribner scale)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS	HARDWOODS
1973	445	214	5	226
1974	378	32	130	216
1975	288	11	224	53
1976	2,396	1,411	670	315
1977	1,360	169	411	780
1978	1,721	172	917	632
1979	2,117	290	359	1,468
1980	1,149	295	610	244
1981	738	88	186	464
1982	797	281	211	305
1983--				
1st quarter	20	0	0	20
2d quarter	93	0	22	71
3d quarter	330	0	0	330
4th quarter	231	0	9	222
1983 total	674	0	31	643
1984--				
1st quarter	497	4	0	493
2d quarter	347	0	97	250
3d quarter	762	0	148	614
4th quarter				
1984 total				

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter. Revisions that may have been made after this time are not shown. Southern California consists of the San Diego and Los Angeles Customs Districts and includes all ports south of Monterey, California.

Table 21--Volume and average value of softwood log exports to Canada from the Montana Customs District, 1973-84[1]

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

YEAR AND QUARTER	ALL SPECIES		DOUGLAS-FIR		OTHER SOFTWOODS	
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
1973	379	177.58	93	261.16	286	150.40
1974	925	178.24	19	149.05	906	178.86
1975	739	226.93	72	274.78	667	221.76
1976	571	228.43	103	254.08	468	222.78
1977	1,227	247.66	467	251.10	760	245.54
1978	901	226.05	136	367.43	765	200.91
1979	3,906	168.47	0	--	3,906	168.47
1980	699	239.88	36	303.53	663	236.42
1981	477	362.68	123	475.06	354	323.64
1982	418	285.81	16	203.81	402	289.07
1983--						
1st quarter	63	310.65	0	--	63	310.65
2d quarter	317	254.09	0	--	317	254.09
3d quarter	111	284.59	11	460.64	100	265.23
4th quarter	134	242.75	0	--	134	242.75
1983 total and average value	625	262.78	0	--	614	259.23
1984--						
1st quarter	322	260.77	0	--	322	260.77
2d quarter	107	249.79	0	--	107	249.79
3d quarter	177	238.25	0	--	177	238.25
4th quarter						
1984 total and average value						

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Montana Customs District includes all ports in Montana and Idaho.

Table 22--Log exports from British Columbia ports, by species and destination, 1973-84[1/]

(In thousand board feet, British Columbia log scale)

YEAR AND QUARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOODS
			TO ALL COUNTRIES				
1973	35,716	1,852	9,750	7,441	13,647	1,211	1,815
1974	148,801	11,790	31,528	67,843	27,355	4,973	5,312
1975	85,082	2,406	18,914	19,373	41,416	1,505	2,188
1976	116,193	5,390	39,069	21,901	41,959	3,346	4,528
1977	186,511	10,085	118,085	36,048	19,835	754	1,704
1978	128,853	8,592	24,467	45,143	49,767	530	354
1979	169,107	2,431	56,504	56,954	43,201	4,135	5,882
1980	231,784	8,907	106,193	49,590	36,756	12,155	18,183
1981	184,481	856	98,579	24,616	37,774	18,943	3,713
1982	252,892	48,192	75,731	38,005	40,446	37,087	13,431
1983--							
1st quarter	135,436	44,710	41,072	4,176	17,097	17,360	11,021
2d quarter	107,628	30,266	27,731	3,065	12,059	7,811	26,696
3d quarter	113,857	1,139R	53,585	3,550	15,890	14,808	9,312
4th quarter	124,456	32,801	56,749	11,774	9,854	12,700	578
1983 total	481,377	124,489	179,137	22,565	54,900	52,679	47,607
1984--							
1st quarter	2/149,006R	33,954	75,034	13,885	13,001	12,572	2/560R
2d quarter	2/162,622R	20,839	96,186	3,570	23,134	16,507	2/2,386R
3d quarter	2/162,468	22,803	83,328	11,848	23,049	15,641	2/5,799
4th quarter							
1984 total							
			TO JAPAN				
1973	29,239	1,293	8,058	6,205	13,284	399	0
1974	80,655	2,167	22,968	31,915	16,503	2,304	4,798
1975	61,728	1,460	10,477	7,696	39,470	1,253	1,372
1976	67,192	792	17,026	7,343	39,905	470	1,656
1977	109,301	5,106	65,092	23,413	15,489	201	0
1978	90,001	4,094	16,890	24,038	44,814	99	66
1979	120,297	1,894	49,281	27,597	35,883	3,636	2,056
1980	154,824	1,092	61,500	35,346	36,157	6,939	13,190
1981	131,321	698	71,645	17,427	31,541	10,010	0
1982	130,457	8,205	51,603	23,459	29,806	16,758	626
1983--							
1st quarter	72,481	15,996	35,674	4,346	11,558	4,907	0
2d quarter	40,003	10,139	10,968	3,062	9,547	6,258	29
3d quarter	57,843	10,011	29,757	3,275	10,718	4,082	0
4th quarter	70,884	19,120	27,242	9,637	8,174	6,469	242
1983 total	241,211	55,266	103,641	20,320	39,997	21,716	271
1984--							
1st quarter	82,920	21,667	30,097	12,520	9,846	8,756	34
2d quarter	2/90,811R	16,676	37,418	3,366	20,285	13,049	2/17R
3d quarter	2/102,812	18,412	44,854	4,687	19,414	9,675	2/5,770
4th quarter							
1984 total							

Table 22--Log exports from British Columbia ports, by species and destination, 1973-84[1/] (continued)

(In thousand board feet, British Columbia log scale)

YEAR AND QUARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOODS
			TO UNITED STATES				
1973	6,471	559	1,692	1,236	363	812	1,809
1974	68,146	9,623	8,560	35,928	10,852	2,669	514
1975	23,354	946	7,717	11,677	1,946	252	816
1976	48,911	4,598	22,043	14,558	1,964	2,876	2,872
1977	74,442	4,979	50,817	12,043	4,346	553	1,704
1978	32,843	4,498	6,039	19,144	2,443	431	288
1979	48,810	537	7,223	29,357	7,368	499	3,826
1980	76,955	7,215	44,693	14,244	594	5,216	4,993
1981	50,324	158	26,934	7,189	4,340	8,879	2,824
1982	63,900	1,524	23,241	10,705	5,695	20,044	2,691
1983--							
1st quarter	20,371	2,790	5,398	370	2,443	7,562	1,808
2d quarter	23,402	1,641	16,763	0	2,512	1,553	1,133
3d quarter	42,673	2,672	23,828	275	5,172	10,726	0
4th quarter	26,059	4,407	13,451	316	1,650	5,808	427
1983 total	112,505	11,310	59,440	961	11,777	25,649	3,368
1984--							
1st quarter	2/19,704	2,532	14,301	81	255	713	2/1,822
2d quarter	2/38,294	1,700	27,398	562	2,839	3,486	2/2,309R
3d quarter	2/27,569	466	13,523	5,531	3,635	4,414	2/0
4th quarter							
1984 total							
			TO MAINLAND CHINA				
1982	46,689	38,463	0	0	3,787	0	8,911
1983--							
1st quarter	43,124	25,924	0	0	3,096	4,891	9,213
2d quarter	44,220	18,686	0	0	0	0	25,534
3d quarter	4,029	4,029	0	0	0	0	0
4th quarter	18,981	9,274	0	0	0	395	9,312
1983 total	110,354	57,913	0	0	3,096	5,286	44,059
1984--							
1st quarter	2/41,440R	9,755	25,710	0	2,900	3,075	2/0R
2d quarter	2/27,897	2,314	25,583	0	0	0	2/0
3d quarter	2/28,105	3,741	22,812	0	0	1,552	2/0
4th quarter							
1984 total							

Source--Bureau of Economics and Statistics, Department of Industrial Development, Trade, and Commerce, Victoria, B.C., "Preliminary Statement of External Trade."

1/Figures do not include shipments of pulpwood logs.

2/Incomplete; does not include all "Hardwoods."

R = revised.

Table 23--Volume and average value of softwood log imports of all species from Canada into Washington and Oregon, 1973-84

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

YEAR AND QUARTER	VOLUME	AVERAGE VALUE
1973	2,102	124.71
1974	31,625	248.69
1975	55,494	207.13
1976	44,438	122.62
1977	91,962	194.93
1978	41,307	271.29
1979	75,855	298.89
1980	51,828	233.08
1981	33,985	319.77
1982	59,492	313.27
1983--		
1st quarter	27,366	255.60
2d quarter	9,803	161.82
3d quarter	21,593	214.60
4th quarter	17,912	227.86
1983 total and average value	76,674	225.58
1984--		
1st quarter	14,150	190.01
2d quarter	18,670	103.79
3d quarter	20,858	125.83
4th quarter		
1984 total and average value		

Source--U.S. Department of Commerce. Value is declared value at port of entry. Data are compiled from Department of Commerce records at the end of each quarter.

Table 24--Volume and average value of pulpwood imports from Canada into the Washington Customs District, 1973-84

YEAR AND QUARTER	CHIPPED PULPWOOD		ROUNDWOOD PULPWOOD	
	VOLUME	VALUE	VOLUME	VALUE
	Short tons	Dollars	Cords	Dollars
1973	1,085,124	11.19	16	97.06
1974	623,830	15.55	31,998	60.08
1975	493,761	23.36	11,517	42.90
1976	877,550	20.98	1,967	32.14
1977	1,056,102	18.59	16,674	91.19
1978	1,215,483	16.37	0	--
1979	1,039,458	17.19	0	--
1980	1,185,701	26.77	57,337	66.64
1981	1,160,507	32.33	23,084	130.11
1982	1,247,813	32.15	8,320	139.24
1983--				
1st quarter	337,359	26.69	0	--
2d quarter	371,580	23.22	0	--
3d quarter	394,400	23.86	0	--
4th quarter	324,151	23.69	0	--
1983 total and average value	1,427,490	24.32	0	--
1984--				
1st quarter	567,891	21.95	0	--
2d quarter	418,399	22.29	0	--
3d quarter	285,890	23.81	0	--
4th quarter				
1984 total and average value				

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

Table 25--Volume and average value of chips exported from the Washington, Oregon, San Francisco, and Alaska Customs Districts, 1973-84

(In short tons, ovendried basis; average value in dollars per short ton)

YEAR AND QUARTER	WASHINGTON CUSTOMS DISTRICT		OREGON CUSTOMS DISTRICT		SAN FRANCISCO CUSTOMS DISTRICT		ALASKA CUSTOMS DISTRICT	
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
1973	272,196	21.84	2,778,829	24.85	369,403	24.41	0	--
1974	390,370	28.62	3,177,465	26.50	242,017	30.69	34,828	28.99
1975	326,083	38.56	2,436,807	34.74	257,735	28.96	32,399	48.51
1976	457,801	33.39	2,881,577	39.90	366,678	34.76	107,652	37.89
1977	281,540	49.17	2,892,333	43.33	519,444	42.91	107,429	51.67
1978	299,140	46.16	2,650,423	42.98	412,107	40.82	31,827	37.20
1979	346,209	50.05	3,125,103	42.55	603,989	44.69	83,706	48.62
1980	268,103	79.53	2,849,927	88.44	728,459	85.81	151,328	75.57
1981	296,461	80.74	2,076,612	85.51	321,533	89.89	77,649	73.61
1982	328,374	79.27	1,914,439	83.31	196,292	83.36	74,164	68.98
1983--								
1st quarter	69,722	75.40	400,690	70.19	57,310	67.87	6,645	34.67
2d quarter	64,243	74.74	441,218	70.65	116,439	67.39	0	--
3d quarter	77,917	74.34	438,092	66.44	83,760	64.63	0	--
4th quarter	36,053	70.86	388,971	65.22	93,078	67.44	0	--
1983 total and average value	247,935	74.24	1,668,971	68.17	350,587	66.82	6,645	34.67
1984--								
1st quarter	58,862	77.03	392,085	64.65	62,575	64.09	11,609	28.53
2d quarter	45,002	70.40	441,888	66.57	61,553	72.90	0	--
3d quarter	77,700	77.69	418,463	73.42	105,500	71.72	0	--
4th quarter								
1984 total and average value								

Source--U.S. Department of Commerce. The valuation definition used in the export statistics is the value at the seaport or border port of exportation. It is based on the selling price (or cost if not sold) and includes inland freight, insurance, and other charges to the port of exportation. Washington Customs District includes all ports in the State of Washington, except Longview and Vancouver. Oregon Customs District includes all Oregon ports and Longview and Vancouver, Washington. San Francisco Customs District includes all coastal and inland ports in the State of California from Monterey north. The Alaska Customs District is the State of Alaska.

Table 26--Softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/]

(In thousand board feet)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS
					TO ALL COUNTRIES							
1973	799,631	532,321	169,927	97,383	324,740	143,666	104,851	76,223	474,891	388,655	65,076	21,160
1974	719,729	496,978	124,047	98,704	331,818	174,056	79,399	78,363	387,911	322,922	44,648	20,341
1975	616,883	415,152	125,529	76,202	263,754	151,681	52,064	60,009	353,129	263,471	73,465	16,193
1976	698,941	478,100	145,645	75,196	311,599	155,041	94,581	61,977	387,342	323,059	51,064	13,219
1977	549,059	372,609	125,479	50,971	256,703	123,783	92,364	40,556	292,356	248,826	33,115	10,415
1978	585,588	374,032	135,156	76,400	310,100	128,895	118,094	63,111	275,488	245,137	17,062	13,289
1979	839,895	427,063	280,067	132,765	413,673	98,685	211,030	103,858	426,322	328,378	69,031	28,907
1980	984,882	449,123	338,487	197,272	521,728	106,671	270,706	144,351	463,154	342,452	67,781	52,921
1981	933,739	451,075	268,024	214,640	467,886	139,070	173,000	155,816	465,853	312,005	95,024	58,824
1982	888,401	419,263	306,901	162,237	472,956	117,049	237,174	118,733	415,445	302,214	69,727	43,504
1983--												
1st quarter	249,498	124,545	72,467	52,486	136,719	32,870	56,501	47,348	112,779	91,675	15,966	5,138
2d quarter	299,636	156,898	80,312	62,426	161,445	49,765	64,356	47,324	138,191	107,133	15,956	15,102
3d quarter	225,602	108,196	65,651	51,755	123,617	32,142	49,362	42,113	101,985	76,054	16,289	9,642
4th quarter	247,319	123,340	76,979	47,000	130,896	37,517	53,073	40,306	116,423	85,823	23,906	6,694
1983 total	1,022,055	512,979	295,409	213,667	552,677	152,294	223,292	177,091	469,378	360,685	72,117	36,576
1984--												
1st quarter	235,251	128,283	62,634	44,334	104,766	32,797	37,203	34,766	130,485	95,486	25,431	9,568
2d quarter	260,690	149,240	67,462	43,988	113,156	36,444	43,491	33,221	147,534	112,796	23,971	10,767
3d quarter	236,316	123,199	61,171	51,946	112,276	30,042	42,658	39,576	124,040	93,157	18,513	12,370
4th quarter												
1984 total												
					TO JAPAN							
1973	153,537	40,402	99,707	13,428	89,514	19,247	64,966	5,301	64,023	21,155	34,741	8,127
1974	205,888	102,858	77,973	25,057	103,531	44,424	47,616	11,491	102,357	58,434	30,357	13,566
1975	208,160	96,307	96,610	15,243	89,489	40,991	45,359	3,139	118,671	55,316	51,251	12,104
1976	186,628	68,927	107,884	9,817	127,553	39,430	80,891	7,232	59,075	29,497	26,993	2,585
1977	145,386	40,945	93,719	10,722	108,468	20,845	80,161	7,462	36,918	20,100	13,558	3,260
1978	163,233	36,429	108,610	18,194	141,963	25,609	103,056	13,289	21,270	10,820	5,554	4,896
1979	355,840	75,567	227,702	52,571	258,444	45,549	177,239	35,656	97,396	30,018	50,463	16,915
1980	362,458	53,084	249,729	59,645	269,406	26,428	199,237	43,741	93,052	26,656	50,492	15,904
1981	312,232	55,479	206,837	49,916	189,547	25,966	128,307	35,274	122,685	29,513	78,530	14,642
1982	414,221	94,161	260,844	59,216	283,500	41,819	201,775	39,906	130,721	52,342	59,069	19,310
1983--												
1st quarter	111,529	28,259	62,186	21,084	77,376	10,277	47,871	19,228	34,153	17,982	14,315	1,856
2d quarter	116,414	29,497	67,962	18,955	86,712	16,280	54,250	16,182	29,702	13,217	13,712	2,773
3d quarter	97,726	21,793	56,121	19,812	67,882	11,321	41,471	15,090	29,844	10,472	14,650	4,722
4th quarter	122,373	34,320	68,255	19,798	83,780	19,924	47,560	16,296	38,593	14,396	20,695	3,502
1983 total	448,042	113,869	254,524	79,649	315,750	57,802	191,152	66,796	132,292	56,067	63,372	12,853
1984--												
1st quarter	106,363	28,123	56,640	21,600	64,431	15,971	32,261	16,199	41,932	12,152	24,379	5,401
2d quarter	107,744	27,685	59,310	20,749	67,406	13,227	38,884	15,295	40,338	14,458	20,426	5,454
3d quarter	101,460	23,202	54,662	23,596	64,525	10,471	37,803	16,251	36,935	12,731	16,859	7,345
4th quarter												
1984 total												

Table 26--Softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/] (continued)

(In thousand board feet)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS
					TO CANADA							
1973	88,695	49,381	9,340	29,974	88,695	49,381	9,340	29,974	0	0	0	0
1974	126,547	67,856	5,952	52,739	124,097	65,406	5,952	52,739	2,795	2,763	0	32
1975	113,213	61,099	4,299	47,815	112,783	61,099	3,869	47,815	0	0	0	0
1976	101,633	50,327	6,737	44,569	101,633	50,327	6,737	44,569	0	0	0	0
1977	76,251	45,842	3,695	26,714	76,251	45,842	3,695	26,714	0	0	0	0
1978	117,969	69,852	9,241	38,876	117,930	69,813	9,241	38,876	39	39	0	0
1979	113,977	38,917	18,870	56,190	113,977	38,917	18,870	56,190	0	0	0	0
1980	159,658	54,876	26,325	78,457	159,658	54,876	26,325	78,457	0	0	0	0
1981	213,594	91,861	20,598	101,135	213,594	91,861	20,598	101,135	0	0	0	0
1982	120,189	50,773	11,127	58,289	120,189	50,773	11,127	58,289	0	0	0	0
1983--												
1st quarter	42,952	17,999	2,467	22,486	42,952	17,999	2,467	22,486	0	0	0	0
2d quarter	55,975	26,494	2,681	26,800	55,975	26,494	2,681	26,800	0	0	0	0
3d quarter	39,020	14,792	2,498	21,730	39,020	14,792	2,498	21,730	0	0	0	0
4th quarter	32,816	12,848	2,087	17,881	32,816	12,848	2,087	17,881	0	0	0	0
1983 total	170,763	72,133	9,733	88,897	170,763	72,133	9,733	88,897	0	0	0	0
1984--												
1st quarter	26,862	10,934	2,255	13,673	26,862	10,934	2,255	13,673	0	0	0	0
2d quarter	30,118	14,797	2,164	13,157	30,118	14,797	2,164	13,157	0	0	0	0
3d quarter	29,429	11,757	1,601	16,071	29,429	11,757	1,601	16,071	0	0	0	0
4th quarter												
1984 total												
					TO MAINLAND CHINA							
1981	9,041	8,829	20	192	335	123	20	192	8,706	8,706	0	0
1982	2,248	2,248	0	0	0	0	0	0	2,248	2,248	0	0
1983--												
1st quarter	0	0	0	0	0	0	0	0	0	0	0	0
2d quarter	1,637	1,637	0	0	0	0	0	0	1,637	1,637	0	0
3d quarter	1,619	1,619	0	0	0	0	0	0	1,619	1,619	0	0
4th quarter	4,146	4,146	0	0	0	0	0	0	4,146	4,146	0	0
1983 total	7,402	7,402	0	0	0	0	0	0	7,402	7,402	0	0
1984--												
1st quarter	0	0	0	0	0	0	0	0	0	0	0	0
2d quarter	10,665	10,665	0	0	0	0	0	0	10,665	10,665	0	0
3d quarter	12,292	12,292	0	0	0	0	0	0	12,292	12,292	0	0
4th quarter												
1984 total												

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Includes lumber classified as railroad crossties and not specified by species.

Table 27--Average value of softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/]

(In dollars per thousand board feet)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS
					TO ALL COUNTRIES							
1973	269.96	310.24	174.98	215.55	211.88	262.75	166.56	178.33	309.68	327.79	188.54	349.63
1974	283.80	310.19	211.88	241.28	242.67	267.93	205.45	224.26	318.98	332.98	223.32	306.82
1975	263.14	283.95	206.11	243.68	220.36	228.52	191.93	224.40	295.09	315.86	216.16	315.10
1976	318.61	350.52	220.15	306.38	260.23	280.33	217.02	275.88	365.57	384.21	225.95	449.34
1977	340.02	371.97	240.66	350.99	278.19	291.17	242.18	320.55	394.31	412.17	236.43	469.55
1978	362.29	403.55	266.51	329.76	290.19	309.81	266.70	294.06	443.46	452.34	265.25	499.35
1979	518.36	639.18	377.08	427.85	401.51	471.86	371.57	395.90	631.60	699.47	393.73	542.65
1980	436.14	560.96	319.83	351.55	324.62	361.19	310.48	324.13	561.77	623.19	357.18	426.36
1981	387.06	436.65	342.81	338.11	332.62	360.84	322.81	318.31	441.75	470.44	379.24	390.55
1982	366.89	424.78	291.66	359.59	303.23	304.87	291.53	313.02	442.78	471.22	292.09	486.70
1983--												
1st quarter	349.88	386.89	312.11	314.22	305.05	397.05	313.84	300.12	404.23	419.10	305.98	444.15
2d quarter	328.44	345.86	303.90	316.22	289.95	283.36	309.54	270.24	373.41	374.90	281.06	460.30
3d quarter	353.98	401.49	312.83	306.87	307.22	312.80	325.80	281.19	410.66	438.98	273.51	419.03
4th quarter	357.28	414.03	297.84	305.68	305.62	301.81	322.39	287.07	415.36	463.09	243.33	417.71
1983 average	346.29	383.95	306.32	311.15	301.26	297.07	317.28	284.66	399.31	420.63	272.89	478.61
1984--												
1st quarter	248.75	414.93	282.74	328.88	311.78	332.84	303.13	301.17	405.06	443.12	252.91	429.59
2d quarter	350.79	389.30	281.20	391.14	306.87	324.96	294.38	303.36	384.89	410.09	257.29	399.41
3d quarter	346.84	365.00	300.82	357.98	321.78	305.17	317.47	339.03	369.53	384.30	262.45	418.59
4th quarter												
1984 average												
					TO JAPAN							
1973	204.26	198.89	191.64	314.19	194.09	186.88	190.83	260.23	218.49	209.81	193.15	349.39
1974	221.96	228.74	210.08	231.13	217.74	226.46	206.72	229.73	226.23	230.47	215.35	232.32
1975	188.89	155.39	202.62	313.48	188.14	167.70	182.71	533.56	189.45	146.27	220.23	256.41
1976	220.76	204.96	218.97	315.40	223.82	232.17	209.63	337.05	214.14	168.59	246.94	391.56
1977	243.68	249.38	240.35	250.06	246.50	266.64	240.37	256.19	235.40	231.45	240.28	239.31
1978	299.96	393.04	266.25	314.88	293.87	396.05	263.56	332.17	340.64	385.92	316.02	268.52
1979	418.26	491.38	376.08	495.86	407.98	488.99	372.67	480.04	445.53	495.01	388.04	529.21
1980	353.02	391.89	332.12	405.92	346.43	391.76	326.23	411.03	372.09	392.01	355.34	391.88
1981	357.26	436.99	321.23	417.97	357.88	428.98	322.83	433.00	356.32	444.04	318.60	381.77
1982	312.11	315.93	297.27	371.19	286.72	281.02	275.85	347.61	359.52	343.82	370.45	420.45
1983--												
1st quarter	309.30	285.24	313.18	330.11	300.64	268.24	295.68	330.32	328.91	294.94	371.70	327.95
2d quarter	297.69	279.61	304.03	303.07	297.66	262.05	307.48	300.56	297.77	301.25	290.39	317.72
3d quarter	308.88	317.40	309.86	296.72	310.67	289.44	323.22	292.13	304.78	347.63	272.03	311.40
4th quarter	312.45	298.47	288.88	417.95	334.43	289.79	318.48	435.54	264.74	310.48	220.84	336.11
1983 average	307.05	293.92	303.49	337.21	310.94	278.08	310.68	340.15	297.76	310.26	281.80	328.89
1984--												
1st quarter	291.81	310.90	276.82	306.26	299.13	295.52	296.34	308.27	280.56	331.12	251.00	300.22
2d quarter	306.59	320.67	276.81	372.94	311.33	318.53	286.06	369.37	298.67	322.63	259.20	382.96
3d quarter	300.85	275.81	294.81	339.46	308.80	262.59	308.25	339.84	286.97	286.70	264.67	338.63
4th quarter												
1984 average												

Table 27--Average value of softwood lumber exports from Washington and Oregon ports, by origin, species, and destination, 1973-84[1/] (continued)

(In dollars per thousand board feet)

YEAR AND QUARTER	FROM BOTH STATES				FROM WASHINGTON CUSTOMS DISTRICT				FROM OREGON CUSTOMS DISTRICT			
	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS	ALL SPECIES	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFT-WOODS
					TO CANADA							
1973	182.24	192.12	120.04	185.34	182.24	192.12	120.04	185.34	--	--	--	--
1974	205.78	223.84	196.55	183.58	202.89	219.18	196.55	183.40	312.23	312.23	--	300.03
1975	189.59	200.09	199.95	175.20	189.59	200.09	199.95	175.20	--	--	--	--
1976	243.28	257.29	245.57	227.11	243.28	257.29	245.57	227.11	--	--	--	--
1977	237.20	205.68	272.32	286.43	237.20	205.68	272.32	286.43	--	--	--	--
1978	186.31	152.21	240.99	234.59	186.20	151.99	240.99	234.59	536.67	536.67	--	--
1979	333.39	384.39	331.18	298.58	333.28	384.39	331.18	298.58	--	--	--	--
1980	263.66	285.72	252.59	251.96	263.66	285.72	252.59	251.96	--	--	--	--
1981	281.69	298.64	301.46	241.23	271.69	298.64	301.46	241.23	--	--	--	--
1982	263.51	268.80	317.76	248.85	263.51	268.80	317.73	248.85	--	--	--	--
1983--												
1st quarter	263.27	278.36	325.74	244.33	263.27	278.36	325.74	244.33	--	--	--	--
2d quarter	259.43	277.71	332.15	234.08	259.43	277.71	332.15	234.08	--	--	--	--
3d quarter	259.42	281.40	350.39	233.99	259.42	281.40	350.39	233.99	--	--	--	--
4th quarter	250.56	273.08	348.60	222.93	250.56	273.08	348.60	222.93	--	--	--	--
1983 average	258.69	277.81	338.73	234.41	258.69	277.81	338.73	234.41	--	--	--	--
1984--												
1st quarter	306.24	302.89	344.07	302.68	306.24	302.89	344.07	302.68	--	--	--	--
2d quarter	268.31	282.82	347.89	238.90	268.31	282.82	347.89	238.90	--	--	--	--
3d quarter	295.89	276.86	547.57	284.74	295.89	276.86	326.46	284.74	--	--	--	--
4th quarter												
1984 average												
					TO MAINLAND CHINA							
1981	283.78	286.62	741.60	105.42	270.55	450.82	741.60	105.42	284.30	284.30	--	--
1982	257.07	257.07	--	--	--	--	--	--	257.07	257.07	--	--
1983--												
1st quarter	--	--	--	--	--	--	--	--	--	--	--	--
2d quarter	314.97	314.97	--	--	--	--	--	--	314.97	314.97	--	--
3d quarter	299.97	299.97	--	--	--	--	--	--	299.97	299.97	--	--
4th quarter	332.71	332.71	--	--	--	--	--	--	332.71	332.71	--	--
1983 average	321.62	321.62	--	--	--	--	--	--	321.62	321.62	--	--
1984--												
1st quarter	--	--	--	--	--	--	--	--	--	--	--	--
2d quarter	254.00	254.00	--	--	--	--	--	--	254.00	254.00	--	--
3d quarter	284.03	284.03	--	--	--	--	--	--	284.03	284.03	--	--
4th quarter												
1984 average												

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Includes lumber classified as railroad crossties and not specified by species.

Table 28--Softwood lumber exports from northern California ports, by species and destination, 1973-84[1]

(In thousand board feet)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS
		TO ALL COUNTRIES		
1973	73,842	30,746	2,530	40,566
1974	35,314	17,350	815	17,149
1975	27,628	13,388	636	13,604
1976	40,585	14,430	462	25,693
1977	44,438	18,951	1,137	24,350
1978	32,919	12,931	684	19,304
1979	30,832	10,539	1,498	18,795
1980	34,603	10,531	3,777	20,295
1981	47,315	7,841	12,037	27,437
1982	52,717	13,855	7,536	31,326
1983--				
1st quarter	11,357	4,060	1,748	5,549
2d quarter	12,600	5,643	2,584	4,373
3d quarter	12,315	5,727	1,201	5,387
4th quarter	7,008	3,153	86	3,769
1983 total	43,280	18,583	5,619	19,078
1984--				
1st quarter	5,456	2,329	239	2,888
2d quarter	6,710	3,043	298	3,369
3d quarter	5,315	2,601	65	2,649
4th quarter				
1984 total				
		TO JAPAN		
1973	4,963	328	2,359	2,276
1974	3,208	317	12	2,879
1975	4,303	337	--	3,966
1976	5,724	168	396	5,160
1977	7,766	1,354	--	6,412
1978	6,763	107	200	6,456
1979	8,854	0	700	8,154
1980	17,384	1,160	3,256	12,968
1981	29,437	2,608	11,834	14,995
1982	38,213	7,285	6,581	24,347
1983--				
1st quarter	7,519	1,381	1,748	4,390
2d quarter	6,585	578	2,460	3,547
3d quarter	5,389	274	1,134	3,981
4th quarter	2,664	0	72	2,592
1983 total	22,157	2,233	5,414	14,510
1984--				
1st quarter	2,160	223	185	1,752
2d quarter	2,682	122	121	2,439
3d quarter	2,362	--	--	2,362
4th quarter				
1984 total				
		TO MAINLAND CHINA		
1981	93	0	0	93
1982	22	17	0	5
1983--				
1st quarter	0	0	0	0
2d quarter	0	0	0	0
3d quarter	0	0	0	0
4th quarter	0	0	0	0
1983 total	0	0	0	0
1984--				
1st quarter	0	0	0	0
2d quarter	0	0	0	0
3d quarter	0	0	0	0
4th quarter				
1984 total				

Source--U.S. Department of Commerce.

[1]Northern California consists of the San Francisco Customs District and includes Monterey, California, and all ports north of Monterey.

Table 29--Softwood lumber exports from southern California ports, by species and destination, 1973-84[1]

(In thousand board feet)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	OTHER SOFTWOODS
	TO ALL COUNTRIES		
1973	52,608	19,599	33,009
1974	46,514	18,684	27,830
1975	56,759	23,596	33,163
1976	61,256	23,078	38,178
1977	72,588	26,895	45,693
1978	74,347	27,661	46,686
1979	81,372	20,388	60,984
1980	95,641	24,830	70,811
1981	109,451	18,809	90,642
1982	71,212	7,491	63,721
1983--			
1st quarter	6,717	494	6,223
2d quarter	8,472	355	8,117
3d quarter	10,051	686	9,365
4th quarter	10,487	1,068	9,419
1983 total	35,727	2,603	33,124
1984--			
1st quarter	11,121	389	10,732
2d quarter	23,079	1,194	21,885
3d quarter	15,456	578	14,878
4th quarter			
1984 total			
	TO JAPAN		
1973	264	--	264
1974	64	--	64
1975	119	--	119
1976	377	--	377
1977	172	73	99
1978	471	--	471
1979	739	--	739
1980	2,330	237	2,093
1981	1,477	360	1,117
1982	290	12	278
1983--			
1st quarter	0	0	0
2d quarter	2,155	0	2,155
3d quarter	178	0	178
4th quarter	366	22	344
1983 total	2,699	22	2,677
1984--			
1st quarter	59	0	59
2d quarter	268	0	268
3d quarter	25	0	25
4th quarter			
1984 total			

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

[1]Southern California consists of the San Diego and Los Angeles Customs Districts and includes all ports south of Monterey, California.

Table 30--Softwood lumber exports from Alaska ports, by species and destination, 1973-84

(In thousand board feet)

YEAR AND QUARTER	TOTAL	WESTERN HEMLOCK	SITKA SPRUCE	CEDAR	OTHER SOFTWOODS
			TO ALL COUNTRIES		
1973	404,849	210,555	194,143	12	139
1974	362,432	250,144	154,525	2,641	122
1975	313,307	179,398	132,556	1,353	0
1976	290,011	134,387	148,526	1,298	5,800
1977	250,044	122,544	121,350	5,579	571
1978	237,795	126,218	111,435	53	89
1979	278,462	172,005	103,844	479	2,134
1980	256,716	158,682	96,607	105	1,322
1981	195,981	104,974	91,007	0	0
1982	171,966	75,500	94,805	0	1,661
1983--					
1st quarter	42,858	20,389	21,854	0	615
2d quarter	23,333	10,727	11,545	0	1,061
3d quarter	36,314	17,962	18,352	0	0
4th quarter	34,155	21,713	12,442	0	0
1983 total	136,660	70,791	64,193	0	1,676
1984--					
1st quarter	24,995	14,414	10,581	0	0
2d quarter	23,046	13,082	9,964	0	0
3d quarter	31,625	21,712	9,399	0	514
4th quarter					
1984 total					
			TO JAPAN		
1973	403,938	210,536	193,390	12	0
1974	361,691	204,845	154,205	2,641	0
1975	312,976	179,122	132,501	1,353	0
1976	289,197	134,274	148,221	902	5,800
1977	245,445	122,471	121,083	1,391	500
1978	236,615	125,355	111,207	53	0
1979	273,615	170,149	101,408	435	1,623
1980	251,369	156,654	94,610	105	0
1981	161,794	82,753	79,041	0	0
1982	155,826	71,192	83,966	0	668
1983--					
1st quarter	34,269	18,795	14,937	0	537
2d quarter	22,230	10,626	10,543	0	1,061
3d quarter	29,008	13,116	15,892	0	0
4th quarter	34,155	21,713	12,442	0	0
1983 total	119,662	64,250	53,814	0	1,598
1984--					
1st quarter	24,994	14,414	10,580	0	0
2d quarter	23,046	13,082	9,964	0	0
3d quarter	30,490	21,091	9,399	0	0
4th quarter					
1984 total					
			TO MAINLAND CHINA		
1981	27,149	18,428	8,721	0	0
1982	13,153	3,307	9,846	0	0
1983--					
1st quarter	5,976	1,582	4,394	0	0
2d quarter	0	0	0	0	0
3d quarter	6,278	4,846	1,432	0	0
4th quarter	0	0	0	0	0
1983 total	12,254	6,428	5,826	0	0
1984--					
1st quarter	0	0	0	0	0
2d quarter	0	0	0	0	
3d quarter	0	0	0	0	
4th quarter					
1984 total					

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter.

Table 31--Softwood lumber exports to Canada from the Montana Customs District, 1973-84[1]

(In thousand board feet)

YEAR AND QUARTER	TOTAL	DOUGLAS-FIR	WESTERN HEMLOCK	OTHER SOFTWOODS
1973	47,727	30,526	3,334	13,867
1974	29,146	9,618	3,602	15,926
1975	50,226	12,745	4,516	32,965
1976	56,451	19,050	3,521	33,880
1977	46,488	12,660	3,463	30,365
1978	44,612	12,691	2,276	29,645
1979	81,671	22,067	1,632	57,972
1980	57,556	14,030	1,803	41,723
1981	82,933	18,196	1,308	63,429
1982	47,418	8,595	690	38,133
1983--				
1st quarter	16,216	3,428	230	12,558
2d quarter	21,160	4,397	185	16,578
3d quarter	18,434	2,736	277	15,421
4th quarter	13,412	1,973	160	11,279
1983 total	69,222	12,534	852	55,836
1984--				
1st quarter	10,988	1,783	31	9,174
2d quarter	12,274	2,165	197	9,912
3d quarter	25,721	2,135	322	23,264
4th quarter				
1984 total				

Source--U.S. Department of Commerce.

[1]Montana Customs District includes all ports in Montana and Idaho.

able 32--Lumber exports from British Columbia ports, by species and destination, 1973-84

In thousand board feet)

EAR AND JARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOODS
			TO ALL COUNTRIES				
973	4,169,812	566,535	2,032,594	456,522	766,830	344,401	2,930
974	3,938,940	527,706	1,699,277	406,419	914,787	387,043	3,708
975	3,001,410	356,371	1,113,665	295,218	825,527	409,507	1,122
976	4,670,033	542,197	1,967,446	467,829	1,191,429	499,853	1,279
977	5,860,807	683,614	2,364,028	533,267	2,269,876	8,796	1,226
978	5,876,119	679,566	2,492,764	570,796	2,116,258	15,674	1,061
979	5,755,532	679,694	2,313,186	646,701	1,983,829	129,161	2,961
980	5,160,800	498,425	2,098,672	988,347	1,872,234	99,624	3,498
981	4,421,519	420,466	1,805,988	604,608	1,495,892	93,086	1,479
982	4,242,899	339,932	1,803,999	635,865	208,218	1,244,341	10,544
983--							
1st quarter	1,173,746	80,455	503,998	161,250	62,562	363,111	2,370
2d quarter	1,231,102	92,469	556,169	183,459	42,115	355,453	1,437
3d quarter	1,170,095	83,730	558,274	169,082	44,826	313,650	533
4th quarter	1,222,476	82,212	520,193	193,551	44,272	381,476	772
1983 total	4,797,419	338,866	2,138,634	707,342	193,775	2/1,413,690	5,112
984--							
1st quarter	1,270,372	95,998	531,661	204,012	48,185	386,778	3,738
2d quarter	2/1,458,007	113,174	282,875	205,117	48,375	2/197,183	2/10,283
3d quarter	1,650,351	140,155	568,299	506,962	39,164	395,040	731
4th quarter							
984 total							
			TO JAPAN				
73	617,449	12,987	441,852	88,946	71,531	1,849	284
74	500,785	15,335	349,560	83,749	49,116	2,490	535
75	407,674	12,870	301,336	60,490	30,488	2,405	85
76	633,863	13,727	476,927	79,934	61,743	1,521	11
77	705,823	18,530	530,567	90,447	65,943	85	251
78	779,135	23,799	545,983	116,368	92,940	0	45
79	1,014,481	44,021	677,425	158,121	133,358	546	1,010
80	1,084,426	55,800	701,579	136,130	185,379	4,158	1,380
81	867,636	34,239	577,901	129,256	125,324	717	199
82	1,048,371	44,391	713,625	119,900	66,709	103,607	139
83--							
st quarter	284,327	10,068	189,631	32,141	19,963	32,499	25
d quarter	241,695	7,198	157,455	31,260	11,849	33,914	19
d quarter	177,966	6,039	107,190	22,699	18,636	23,374	28
th quarter	194,964	10,257	104,036	39,001	11,746	29,778	46
983 total	898,952	33,562	558,412	125,101	62,194	119,565	118
184--							
st quarter	231,901	5,705	139,376	35,023	18,419	33,239	139
d quarter	2/526,773	8,287	149,843	35,246	20,407	2/32,921	2/69
d quarter	188,442	12,924	113,382	24,759	12,752	24,492	133
th quarter							
984 total							

Table 32--Lumber exports from British Columbia ports, by species and destination, 1973-84 (continued)

(In thousand board feet)

YEAR AND QUARTER	TOTAL, ALL SPECIES	DOUGLAS-FIR	HEMLOCK	CEDAR	SPRUCE	OTHER SOFTWOODS	HARDWOO
			TO UNITED STATES[1]				
1973	2,601,556	347,653	1,143,329	240,978	544,634	322,316	2,646
1974	2,287,461	302,112	761,924	207,138	659,751	353,487	3,049
1975	2,026,343	238,331	542,256	166,949	684,404	393,391	1,012
1976	2,965,011	322,793	976,784	267,831	938,185	456,237	1,181
1977	4,107,653	529,808	1,340,920	333,604	1,894,371	7,988	962
1978	4,078,666	501,841	1,443,548	365,062	1,751,741	15,496	978
1979	3,528,646	462,658	1,125,807	382,991	1,429,014	126,536	1,642
1980	2,590,889	283,482	775,428	355,821	1,079,387	94,683	2,088
1981	2,337,958	228,856	803,019	394,800	813,733	96,305	1,245
1982	2,017,725	157,776	637,513	430,634	111,314	679,412	1,076
1983--							
1st quarter	596,902	42,067	197,343	107,140	39,938	209,966	448
2d quarter	716,670	50,047	282,102	125,052	27,625	231,261	583
3d quarter	716,678	54,010	279,588	125,998	24,490	232,182	410
4th quarter	565,452	41,694	222,722	38,173	29,642	232,625	596
1983 total	2,595,702	187,818	981,755	396,363	121,695	906,034	2,037
1984--							
1st quarter	710,697	56,129	223,607	144,187	21,935	264,241	598
2d quarter	[2]/802,002	49,529	290,762	144,949	29,670	[2]/284,114	[2]/2,976
3d quarter	1,130,578	87,895	297,663	436,146	21,324	286,952	598
4th quarter							
1984 total							
			TO MAINLAND CHINA				
1982	43,206	0	28,877	0	624	4,514	9,191
1983--							
1st quarter	16,970	0	10,445	0	0	4,663	1,862
2d quarter	27,465	0	23,994	0	0	3,471	0
3d quarter	35,319	3,308	27,331	0	0	4,680	0
4th quarter	55,289	2,966	49,230	0	0	3,093	0
1983 total	135,043	6,274	111,000	0	0	15,907	1,862
1984--							
1st quater	50,651	3,063	45,155	0	0	571	1,862
2d quarter	[2]/44,950	0	37,286	0	0	[2]/0	[2]/7,664
3d quarter	10,160	0	6,282	0	0	3,878	0
4th quarter							
1984 total							

Source--Bureau of Economics and Statistics, Department of Industrial Development, Trade, and Commerce, Victoria, B.C., "Preliminary Statement of External Trade."

[1]/Figures do not include shipments of railroad crossties.

[2]/Incomplete; does not include all "Other softwoods" or "Hardwoods."

Table 33--Plywood exports from Washington and Oregon ports, by origin and destination, 1973-84

(In thousand square feet)

YEAR AND QUARTER	FROM BOTH CUSTOMS DISTRICTS		FROM WASHINGTON CUSTOMS DISTRICT		FROM OREGON CUSTOMS DISTRICT	
	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE
			TO ALL COUNTRIES			
1973	284,806	6,337	45,493	5,546	239,313	791
1974	284,487	6,590	131,317	5,604	153,170	986
1975	407,117	10,493	93,951	10,360	313,166	133
1976	532,576	24,229	34,020	23,846	498,556	383
1977	233,762	17,673	20,603	17,447	213,159	226
1978	242,105	12,160	23,284	8,871	218,821	3,289
1979	330,018	9,962	27,132	9,644	302,886	318
1980	279,003	9,718	20,747	8,806	258,256	912
1981	327,967	18,645	65,729	17,333	262,238	1,312
1982	221,609	9,435	36,268	9,346	185,341	89
1983--						
1st quarter	109,950	4,445	10,297	4,311	99,653	134
2d quarter	100,036	4,884	11,347	4,804	88,689	80
3d quarter	40,582	4,576	7,599	4,569	32,983	7
4th quarter	71,818	2,636	8,765	2,636	63,053	0
1983 total	322,386	16,541	38,008	16,320	284,378	221
1984--						
1st quarter	77,171	3,211	5,987	3,066	71,184	145
2d quarter	26,917	2,625	6,256	2,532	20,661	93
3d quarter	23,064	1,805	5,004	1,805	18,060	0
4th quarter						
1984 total						
			TO JAPAN			
1973	8,139	247	1,625	0	6,514	247
1974	3,311	188	1,203	11	2,108	177
1975	2,141	14	414	0	1,727	14
1976	2,361	61	498	61	1,863	0
1977	1,914	162	122	74	1,792	88
1978	2,821	18	167	18	2,654	0
1979	6,040	108	931	108	5,109	0
1980	8,301	978	4,158	978	4,143	0
1981	5,056	13	2,162	12	2,894	1
1982	6,720	19	3,152	19	3,568	0
1983--						
1st quarter	1,264	0	910	0	354	0
2d quarter	1,047	13	765	0	282	13
3d quarter	1,583	3	1,108	0	475	3
4th quarter	1,786	0	1,190	0	596	0
1983 total	5,680	16	3,973	0	1,707	16
1984--						
1st quarter	1,295	0	267	0	1,028	0
2d quarter	1,727	0	619	0	1,108	0
3d quarter	1,597	0	714	0	883	0
4th quarter						
1984 total						
			TO MAINLAND CHINA			
1982	0	1	0	1	0	0
1983--						
1st quarter	0	0	0	0	0	0
2d quarter	0	0	0	0	0	0
3d quarter	0	0	0	0	0	0
4th quarter	0	0	0	0	0	0
1983 total	0	0	0	0	0	0
1984--						
1st quarter	0	0	0	0	0	0
2d quarter	0	0	0	0	0	0
3d quarter	0	0	0	0	0	0
4th quarter						
1984 total						

Source--U.S. Department of Commerce. Oregon Customs District includes all Oregon ports plus Longview and Vancouver, Washington. Washington Customs District includes all coastal and inland ports in the State of Washington, except Longview and Vancouver. Data are compiled from Department of Commerce records at the end of each quarter.

(In thousand square feet)

YEAR AND QUARTER	TOTAL	NORTHERN CALIFORNIA		SOUTHERN CALIFORNIA	
		SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE	SOFTWOOD, 3/8-INCH BASIS	HARDWOOD, SURFACE MEASURE
1973	16,562	8,186	698	4,358	3,320
1974	18,177	4,985	305	7,978	4,909
1975	19,619	7,874	542	6,311	4,892
1976	19,696	10,085	92	4,681	5,111
1977	9,198	5,148	646	1,818	1,586
1978	6,036	2,833	899	964	1,340
1979	5,934	1,638	871	1,946	1,479
1980	9,054	1,414	849	3,546	3,245
1981	9,349	2,424	487	2,830	3,608
1982	7,464	3,026	1,364	1,557	1,517
1983--					
1st quarter	1,356	524	58	195	579
2d quarter	2,567	1,302	497	207	561
3d quarter	2/2,315	933	259	2/572	551
4th quarter	1,890	683	160	356	691
1983 total	8,128	3,442	974	1,330	2,382
1984--					
1st quarter	2,549	751	162	269	1,367
2d quarter	2,169	871	42	299	957
3d quarter	2,191	587	150	309	1,145
4th quarter					
1984 total					

Source--U.S. Department of Commerce. Data are compiled from Department of Commerce records at the end of each quarter. Revisions which may have been made after this time are not shown.

1/Northern California is the San Francisco Customs District and includes all coastal and inland ports from Monterey north. Southern California consists of the San Diego and Los Angeles Customs Districts and includes all ports south of Monterey.

2/Of this amount, 11,000 square feet were exported to mainland China.

Table 35--Volume of timber sold on publicly owned or managed lands, Montana and Idaho, 1979-84

(In thousand board feet, Scribner scale)

AGENCY	1979	1980	1981	1982	1983		1984		
					TOTAL	3D QTR.	1ST QTR.	2D QTR.	3D QTR.
Montana:									
U.S. Forest Service[1]	512,023	575,943	536,133	547,509	589,875	155,954	89,920	169,659	128,514
U.S Bur. Land Manage.[2]	9,148	11,079	9,061	6,265	16,375	14,044	122	0	NA
U.S. Bur. Indian Affairs	37,468	25,405	24,693	17,196	13,136	7,449	10,543	10,543	2,273
State of Montana	28,110	24,662	28,853	25,470	23,553	5,918	5,653	4,908	7,599
Total	586,749	641,089	598,740	596,442	642,939	177,671	102,844	185,110	NA
Idaho:									
U.S. Forest Service[1]	843,992	828,507	741,147	687,320	686,650	280,086	201,763	110,644	317,565
U.S. Bur. Land Manage.[2]	778	19,263	33,221	11,538	12,133	8,851	0	912	1,360
U.S. Bur. Indian Affairs	1,609	2,361	14,484	7,070	8,605	0	0	0	1,260
State of Idaho	179,307	222,137	14,820	38,727	82,674	8,901	32,931	112,038	30,840
Total	1,025,686	1,072,308	803,672	744,655	790,062	292,983	143,575	314,713	351,025
All public lands:									
U.S. Forest Service[1]	1,356,015	1,408,450	1,277,280	1,234,829	1,276,525	436,040	200,264	371,422	436,079
U.S. Bur. Land Manage.[2]	9,926	30,362	42,282	17,803	28,508	17,815	122	912	NA
U.S. Bur. Indian Affairs	39,077	27,786	39,177	24,268	21,741	1,755	7,449	10,543	3,533
State of Montana	28,110	24,662	28,853	25,470	23,553	5,918	5,653	4,908	7,599
State of Idaho	179,307	222,137	14,820	38,727	82,674	8,901	22,012	112,038	30,840
Total	1,612,435	1,713,397	1,402,412	1,341,097	1,433,001	478,509	246,419	499,823	NA

Source--respective agencies listed.

[1]Convertible products only.

[2]Does not include cull log sales.

NA = not available.

Table 36-Average stumpage prices of timber sold on publicly owned or managed lands, Montana and Idaho, 1979-84

(In dollars per thousand board feet)

AGENCY	1979	1980	1981	1982	1983 AVERAGE	1983 3D QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.
Montana:									
U.S. Forest Service[1]	59.66	43.51	57.46	29.80	33.97	30.91	35.00	33.30	16.13
U.S. Bur. Land Manage.[2]	41.99	60.39	39.52	32.17	22.78	23.98	8.09	--	NA
U.S. Bur. Indian Affairs	114.61	104.81	65.05	73.50	51.13	16.20	50.86	27.27	12.69
State of Montana	114.36	79.44	99.28	81.35	83.70	112.02	62.57	64.73	78.37
Average	65.52	47.43	59.52	33.28	36.86	32.92	37.63	33.79	NA
Idaho:									
U.S. Forest Service[1]	63.56	40.74	43.27	28.28	47.13	48.03	52.51	87.06	22.86
U.S. Bur. Land Manage.[2]	63.70	47.05	55.45	26.71	75.56	78.13	--	139.84	68.68
U.S. Bur. Indian Affairs	119.89	129.09	83.15	78.79	78.71	--	--	--	58.27
State of Idaho	102.23	92.21	101.83	45.28	71.04	36.06	64.84	69.77	38.96
Average	70.41	51.71	44.88	29.62	50.41	48.06	55.34	81.06	23.93
All public lands:									
U.S. Forest Service[1]	62.09	41.80	49.22	28.95	41.05	41.91	44.68	62.51	20.88
U.S. Bur. Land Manage.[2]	43.69	51.94	38.92	28.63	45.24	35.63	8.06	139.84	NA
U.S. Bur. Indian Affairs	114.83	106.53	71.74	75.04	62.04	16.20	50.86	27.27	29.06
State of Montana	114.36	79.44	99.28	81.39	83.70	112.02	62.57	64.73	78.37
State of Idaho	102.23	92.21	101.83	45.28	71.04	36.06	64.84	69.77	38.96
Average	66.63	50.11	51.13	31.25	43.88	42.34	47.95	63.56	NA

Source--respective agencies listed.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds). Beginning in 1984, prices for stumpage on National Forest land are high bid value. Road costs and an allowance for sale-area betterment (K-V funds) are included in the bid.

[2]Does not include cull log prices.

NA = revised.

Table 37--Average stumpage prices for sawtimber sold on National Forests by selected species, Northern Region, 1973-84[1]

(In dollars per thousand board feet)

YEAR AND QUARTER	DOUGLAS-FIR	PONDEROSA PINE	WESTERN WHITE PINE	LODGEPOLE PINE	ENGELMANN SPRUCE	WESTERN HEMLOCK	CEDARS	LARCH	TRUE FIRS	ALL SPECIES
1973	50.70	66.50	65.90	38.30	65.80	42.60	45.20	66.30	46.10	53.30
1974	31.90	63.50	117.80	19.40	39.10	28.90	26.50	38.90	29.20	44.70
1975	14.40	22.40	36.20	19.20	10.90	2.00	42.50	20.30	4.80	18.30
1976	23.00	56.80	91.40	16.70	42.20	9.60	45.80	52.90	9.30	35.40
1977	41.50	96.60	122.70	36.30	61.40	11.90	72.00	72.20	20.20	53.20
1978	41.20	113.50	146.00	44.70	85.80	42.50	144.90	69.60	37.30	64.80
1979	51.90	127.20	185.60	34.40	75.90	62.10	117.20	91.40	43.90	70.90
1980	20.50	112.70	80.10	42.70	44.10	171.80	123.20	73.80	30.10	53.40
1981	44.20	74.20	149.70	54.50	63.00	61.40	95.60	67.20	78.40	63.90
1982	26.60	48.10	81.40	34.60	27.20	71.10	60.90	28.30	37.70	36.20
1983	42.50	60.50	96.30	34.10	55.20	47.50	142.80	51.00	65.10	53.70
1984--										
1st quarter	55.70	74.90	101.90	40.90	42.00	39.00	102.70	57.90	62.04	58.20
2d quarter	48.60	144.70	118.50	47.40	44.30	42.60	164.00	54.20	42.60	55.40
3d quarter	42.30	54.00	77.20	23.90	33.70	118.60	80.90	33.80	40.90	41.10
4th quarter										
1984 average										

Source--Forest Service, U.S. Department of Agriculture. Northern Region includes Montana, northeastern Washington, northern Idaho, North Dakota, and northwestern South Dakota.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Before 1984, prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds). Starting in 1984, prices for stumpage on National Forest land are high bid value. Road costs and an allowance for sale-area betterment (K-V funds) are included in the bid.

Table 38--Volume of timber sold on publicly owned or managed lands in California, 1979-84

(In thousand board feet, Scribner scale)

AGENCY	1979	1980	1981	1982	1983 TOTAL	1983 3D QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.
U.S. Forest Service[1]	2,071,263	1,875,796	1,899,263	1,617,664	1,786,681	667,712	437,750	342,201	470,139
U.S. Bur. Land Manage.[2]	4,195	17,203	14,471	33,385	8,919	7,196	1,005	1,475	9,769
U.S. Bur. Indian Affairs	33,729	22,230	11,000	63,595	3,000	0	1,500	2,134	0
State of California	21,833	30,328	10,480	34,726	31,452	335	26,620	6,909	0
Total	2,131,020	1,945,557	1,935,214	1,749,370	1,830,052	675,243	466,875	352,719	470,908

Source--respective agencies listed.

[1]Convertible products only. Includes all of the Pacific Southwest Region and the portion of the Pacific Northwest Region in California.

[2]Does not include cull log sales or volume given away through free use permits.

Table 39--Average stumpage prices of timber sold on publicly owned or managed lands in California, 1979-84

(In dollars per thousand board feet)

AGENCY	1979	1980	1981	1982	1983 AVERAGE	1983 3D QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QT
U.S. Forest Service[1]	201.08	241.39	149.78	53.87	70.66	64.77	86.45	56.32	50.9
U.S. Bur. Land Manage.[2]	102.59	173.25	84.26	41.10	78.47	88.41	14.59	72.63	70.3
U.S. Bur. Indian Affairs	157.70	158.28	224.73	153.90	110.00	--	26.67	63.41	0
State of California	370.76	283.94	190.57	133.93	188.59	97.64	184.57	134.74	0
Average	201.94	240.51	180.70	58.86	72.79	65.04	91.71	57.97	51.3

Source--respective agencies listed.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

[2]Does not include cull log sales or volume given away through free use permits.

Table 40--Average stumpage prices for sawtimber sold on National Forests by selected species, Pacific Southwest Region, 1973-84[1]

(In dollars per thousand board feet)

YEAR AND QUARTER	DOUGLAS-FIR	PONDEROSA AND JEFFREY PINES	SUGAR PINE	LODGEPOLE PINE	CEDARS	TRUE FIRS	ALL SPECIES
1973	84.80	108.60	89.30	12.40	86.40	70.20	83.10
1974	87.00	101.40	104.00	6.50	112.00	41.70	81.80
1975	51.40	71.00	99.00	22.40	79.90	19.70	53.80
1976	76.00	101.80	185.00	6.50	84.00	23.40	80.40
1977	124.30	131.40	168.50	165.20	337.90	50.60	121.10
1978	131.10	164.70	169.20	136.20	516.40	79.80	148.10
1979	186.60	239.00	375.40	25.40	497.10	96.00	206.20
1980	189.50	206.10	671.40	252.80	559.90	133.40	252.20
1981	146.70	196.20	224.10	123.60	108.20	90.30	156.10
1982	50.00	66.90	72.00	27.80	70.30	36.30	54.50
1983--							
1st quarter	75.70	84.60	149.30	37.80	109.60	72.20	85.10
2d quarter	48.30	119.40	70.80	25.40	99.40	43.60	65.70
3d quarter	56.40	90.10	169.30	22.80	57.20	48.40	73.70
4th quarter	79.80	154.30	137.00	36.20	116.20	54.40	92.90
1983 average	63.30	104.00	136.70	28.80	84.60	53.80	76.90
1984--							
1st quarter	81.70	131.40	111.80	10.00	78.30	83.10	98.10
2d quarter	55.40	122.90	88.00	22.50R	89.30	40.60	70.60
3d quarter	47.40	116.20	75.70	16.20	69.50	32.80	64.60
4th quarter							
1984 average							

Source--Forest Service, U.S. Department of Agriculture. Pacific Southwest Region is the State of California.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Before 1984, prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds). Starting in 1984, prices for stumpage on National Forest lands are high bid value. Road costs and an allowance for sale-betterment (K-V funds) are included in the bid.

R = revised.

Table 41--Volume of timber sold on publicly owned or managed lands, Washington and Oregon, 1979-84

(In thousand board feet, Scribner scale)

AGENCY	1979	1980	1981	1982	1983 TOTAL	1983 3D QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.
Western Washington:									
U.S. Forest Service[1]	1,222,548	1,114,024	1,224,969	1,066,085	1,153,819	275,030	236,743	218,171	351,707
U.S. Bur. Indian Affairs	22,882	6,927	13,460	2,535	13,653	6,481	1,949	8,326	7,862
State of Washington[2]	1,150,935	503,565	368,885	601,935	537,295	57,395	128,660	134,340	98,550
Total	2,396,365	1,624,516	1,607,314	1,670,555	1,704,767	338,906	367,352	360,837	458,119
Eastern Washington:									
U.S. Forest Service[1]	420,619	428,631	389,029	322,315	495,326	234,415	81,280	84,088	99,710
U.S. Bur. Land Manage.	2,645	1,798	3,898	3,025	3,414	3,250	4	0	2,181
U.S. Bur. Indian Affairs	140,247	211,205	53,795	44,563	165,656	104,242	20,517	31,243	30,510
State of Washington[2]	125,505	80,345	53,710	89,620	62,235	26,203	15,305	17,290	21,890
Total	689,216	721,979	500,432	459,543	726,631	367,932	117,106	132,621	154,291
Western Oregon:									
U.S. Forest Service[1]	2,441,324	2,643,716	2,378,903	2,418,057	2,179,345	479,813	684,840	352,697	822,995
U.S. Bur. Land Manage.	889,797	1,150,026	1,030,627	1,214,330	1,045,924	339,437.	274,625	266,631	272,579
U.S. Bur. Indian Affairs[3]	0	0	3,340	0	2,361	0	1,021	2,191	0
State of Oregon	219,378	238,931	135,461	301,947	268,416	78,741	35,769	38,584R	21,252
Total	3,550,499	4,032,673	3,548,331	3,934,334	3,496,046	97,991	996,255	660,103R	1,116,826
Eastern Oregon:									
U.S. Forest Service[1]	1,271,677	1,168,327	1,294,928	1,164,264	1,148,349	35,350	294,695	297,121	475,048
U.S. Bur. Land Manage.	6,525	2,301	17,864	15,197	19,212	4,417	427	4,720	8,696
U.S. Bur. Indian Affairs	15,439	25,480	55,032	89,436	17,370	6,100	2,820	69,740	620
State of Oregon	7,499	5,992	1,040	13,350	1,726	0	0	0	6,713
Total	1,301,140	1,202,100	1,368,864	1,282,249	1,186,657	367,867	297,942	371,581R	491,077
All public lands:									
U.S. Forest Service[1]	5,356,368	5,354,698	5,287,829	4,970,721	4,976,839	1,346,908	1,297,558	952,077	1,749,460
U.S. Bur. Land Manage.	898,967	1,154,125	1,052,381	1,232,552	1,068,550	347,104	275,056	271,351	283,456
U.S. Bur. Indian Affairs[3]	178,568	243,612	125,627	136,556	199,040	116,823	26,307	111,500	38,992
State of Washington[2]	1,276,440	583,910	422,595	691,555	599,530	83,420	143,965	151,630	120,440
State of Oregon	226,877	244,923	136,501	315,297	270,142	78,74	35,769	38,584R	27,965
Total	7,937,220	7,581,268	7,024,941	7,346,681R	7,114,101	1,972,696	1,778,655	1,525,142R	2,220,313

Source--respective agencies listed.

[1]Convertible products only.

[2]Excludes sales under $20,000 since January 1980.

[3]Siletz Reservation formed 1980.

R= revised.

Table 42--Average stumpage prices of timber sold on publicly owned or managed lands, Washington and Oregon, 1979-84

(In dollars per thousand board feet)

AGENCY	1979	1980	1981	1982	1983 AVERAGE	1983 3D QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.
Western Washington:									
U.S. Forest Service[1]	224.68	208.06	180.57	61.48	73.84	64.74	73.21	63.38	49.88
U.S. Bur. Indian Affairs	264.95	182.32	129.09	128.64	97.71	98.79	46.76	115.64	19.15
State of Washington[2]	332.10	304.71	208.95	146.88	147.00	205.78	145.50	114.47	114.47
Average	276.66	237.91	186.65	92.35	97.09	89.28	98.39	83.60	63.25
Eastern Washington:									
U.S. Forest Service[1]	104.68	90.92	77.57	30.61	38.60	25.51	53.88	24.90	21.61
U.S. Bur. Land Manage.	16.80	21.25	105.60	43.64	51.64	157.86	62.50	--	28.43
U.S. Bur. Indian Affairs	212.01	162.32	173.78	191.17	127.06	135.61	171.66	181.89	137.93
State of Washington[2]	210.79	207.67	198.94	115.52	67.83	60.40	125.73	145.39	76.65
Average	145.50	124.63	101.15	62.38	61.34	59.41	83.90	77.59	52.52
Western Oregon:									
U.S. Forest Service[1]	332.09	354.60	276.36	92.44	129.33	114.29	121.01	107.21	79.75
U.S. Bur. Land Manage.	292.59	323.63	246.68	89.40	131.14	123.20	121.36	113.65	82.03
U.S. Bur. Indian Affairs[3]	--	--	365.16	--	170.20	--	65.47	121.70	--
State of Oregon	314.93	332.25	262.31	117.52	165.39	159.36	164.55	146.43R	98.19
Average	321.13	344.44	269.30	93.43	132.67	121.63	22.62	112.26R	80.65
Eastern Oregon:									
U.S. Forest Service[1]	169.55	130.22	144.49	77.28	81.70	77.63	91.98	104.33	54.14
U.S. Bur. Land Manage.	103.25	118.72	84.31	62.45	57.58	106.41	32.56	22.04	48.83
U.S. Bur. Indian Affairs	196.29	266.61	112.47	82.85	140.60	87.13	3.07	113.53	83.39
State of Oregon	229.38	186.29	16.00	111.66	59.68	--	--	--	120.29
Average	169.88	133.37	142.32	56.33	82.14	78.13	91.05	105.01R	54.99
All public lands:									
U.S. Forest Service[1]	251.12	254.06	208.60	72.69	96.45	78.99	101.49	89.00	63.48
U.S. Bur. Land Manage.	290.41	322.75	243.40	88.96	129.56	122.41	121.22	112.05	80.59
U.S. Bur. Indian Affairs[3]	217.43	173.80	147.23	119.00	126.74	131.04	140.21	133.66	113.11
State of Washington[2]	320.17	291.35	207.68	142.82	138.71	160.43	143.39	117.99	107.59
State of Oregon	312.10	328.68	260.43	114.27	164.71	159.36	164.55	146.43R	103.49
Average	267.66	267.21	213.67	84.80	108.43	96.36	109.78	100.70R	69.43

Source--respective agencies listed.

[1]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

[2]Excludes sales under $20,000 since january 1980.

[3]Siletz Reservation formed 1980.

R = revised.

Table 43--Average stumpage prices for sawtimber sold on National Forests by selected species, Pacific Northwest Region, 1973-84[1]

(In dollars per thousand board feet)

YEAR AND QUARTER	DOUGLAS-FIR		PONDEROSA AND JEFFREY PINES	SUGAR PINE	WHITE PINE	LODGEPOLE PINE	ENGELMANN SPRUCE	SITKA SPRUCE	WESTERN HEMLOCK	CEDARS[2]	LARCH	NOBLE FIR AND SHASTA RED FIR	OTHER TRUE FIRS	ALL SPECIES
	WEST SIDE	EAST SIDE												
1973	138.10	60.40	77.70	60.50	50.70	38.40	55.60	93.40	99.20	146.80	53.90	81.40	73.80	102.80
1974	202.40	68.20	110.60	139.10	121.00	25.70	50.20	72.60	110.80	217.00	11.00	136.20	80.90	142.40
1975	169.50	34.30	43.10	109.90	84.40	15.40	13.70	75.90	68.50	119.20	5.80	117.70	45.10	101.60
1976	176.20	38.60	79.40	118.90	116.00	40.20	10.50	83.10	78.10	160.30	20.30	105.60	55.00	113.20
1977	225.90	71.20	138.40	162.80	142.70	35.40	36.50	103.00	89.20	149.60	62.10	128.90	85.10	153.80
1978	250.31	98.50	218.70	207.90	123.70	41.60	85.40	109.50	111.70	206.60	56.40	122.50	99.10	185.00
1979	394.30	81.70	238.00	267.30	181.90	47.10	51.60	227.90	197.10	329.10	90.50	211.30	189.80	270.00
1980	432.20	70.80	190.80	167.00	102.80	44.60	34.20	306.50	208.00	301.00	43.60	241.80	167.90	285.50
1981	350.20	94.00	206.40	174.50	100.60	36.60	15.00	238.00	162.00	168.70	69.70	147.30	103.80	230.60
1982	118.20	5.80	78.60	83.60	50.00	17.40	19.50	49.50	44.60	101.90	37.50	28.40	40.00	80.20
1983--														
1st quarter	180.50	31.70	132.70	64.00	24.80	18.90	22.10	25.90	52.60	51.00	31.60	39.50	57.10	122.60
2d quarter	152.80	57.00	127.90	165.60	40.40	22.30	37.60	18.50	71.80	102.90	22.80	61.00	77.30	112.90
3d quarter	142.20	30.70	129.70	161.70	136.90	21.80	42.60	35.20	55.00	68.40	18.90	83.60	50.90	93.90
4th quarter	154.80	39.30	157.40	247.20	78.50	11.00	19.70	43.60	83.20	173.90	62.10	20.90	54.70	119.10
1983 average	161.60	37.60	134.30	131.80	74.30	20.20	28.70	30.00	61.90	88.70	31.80	42.40	58.30	112.50
1984--														
1st quarter	165.80	60.80	148.20	285.60	84.80	39.40	28.20	55.10	83.90	184.90	51.90	96.90	54.80	128.70
2d quarter	135.10R	46.70R	.166.90R	237.00R	85.20R	15.20R	37.60R	25.50R	60.80R	298.70R	35.80R	123.00R	40.90R	112.20R
3d quarter	112.10	21.80	134.70	208.50	74.40	25.30	19.00	35.10	49.00	146.70	28.60	54.80	42.10	90.10
4th quarter														
1984 average														

Source--Forest Service, U.S. Department of Agriculture. Pacific Northwest Region includes Oregon and Washington.

[1]Prices for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Before 1984, prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds). Beginning in 1984, prices for stumpage on National Forest lands are high bid value. Road costs and an allowance for sale-area betterment (K-V funds) are included in the bid.

[2]Includes Port-Orford-cedar.

R = revised.

Table 44--Volume and average stumpage price of selected species on the National Forests of the Pacific Northwest Region, 1984[1/] [2/]

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

NATIONAL FOREST	DOUGLAS-FIR				PONDEROSA AND JEFFREY PINES		WESTERN HEMLOCK		TRUE FIRS[3/]		ALL SPECIES	
	WEST SIDE		EAST SIDE									
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
Western Oregon:												
Mount Hood--												
1st qtr.	54,226	150.24	4,300	31.28	3,920	42.50	36,413	125.74	4,210	53.85	131,257	106.72
2d qtr.	22,297	133.12	9,680	78.73	1,600	14.67	14,141	81.83	2,140	26.27	63,516	98.14
3d qtr.	49,778	121.88	8,500	26.17	3,600	36.74	21,230	87.59	500	46.18	103,737	85.25
4th qtr.												
Total and average												
Rogue River--												
1st qtr.	31,190	196.47	0	--	2,145	119.01	0	--	5,175	89.05	61,275	146.69
2d qtr.	23,646	134.24	0	--	930	59.47	1,750	15.75	8,940	28.68	45,036	106.19
3d qtr.	32,360	113.12	0	--	45	82.70	0	--	19,460	74.58	63,805	114.17
4th qtr.												
Total and average												
Siskiyou--												
1st qtr.	25,394	94.22	0	--	60	47.93	250	33.67	830	42.89	31,523	103.12
2d qtr.	11,765	54.28	0	--	10	50.36	500	9.94	130	11.27	16,680	254.51
3d qtr.	44,320	66.76	0	--	0	--	65	8.50	705	18.39	53,275	74.64
4th qtr.												
Total and average												
Siuslaw--												
1st qtr.	82,871	173.78	0	--	0	--	17,712	89.85	0	--	109,600	151.00
2d qtr.	52,585	132.15	0	--	0	--	5,750	74.94	0	--	61,398	123.19
3d qtr.	45,520	101.91	0	--	0	--	2,670	58.38	0	--	57,458	85.97
4th qtr.												
Total and average												
Umpqua--												
1st qtr.	100,233	160.61	0	--	0	--	0	--	0	--	120,593	146.73
2d qtr.	51,180	106.21	0	--	0	--	800	15.04	0	--	68,150	92.69
3d qtr.	109,430	49.32	0	--	0	--	2,260	18.84	10,990	13.07	157,840	50.36
4th qtr.												
Total and average												
Willamette--												
1st qtr.	128,986	170.66	0	--	300	234.72	27,715	33.94	360	12.62	214,576	116.06
2d qtr.	46,665	150.85	0	--	500	286.01	10,107	40.82	680	15.83	78,897	108.04
3d qtr.	245,407	116.84	0	--	0	--	37,688	54.78	4,830	27.19	354,229	93.07
4th qtr.												
Total and average												
All western Oregon:												
1st qtr.	422,900	163.59	4,300	31.28	6,425	77.07	82,090	86.73	10,575	68.81	668,824	127.68
2d qtr.	208,138	125.98	9,680	78.73	3,040	73.12	33,048	61.89	11,890	27.32	333,727	112.86
3d qtr.	526,815	98.55	8,500	26.17	3,645	37.31	63,913	64.51	36,485	48.30	790,344	83.46
4th qtr.												
Total and average												
Western Washington:												
Gifford Pinchot--												
1st qtr.	51,530	87.98	0	--	0	--	5,890	36.15	14,920	64.06	82,660	69.97
2d qtr.	38,345	130.06	0	--	0	--	18,813	89.94	11,300	76.43	79,423	98.06
3d qtr.	58,310	100.03	0	--	0	--	31,360	46.72	9,600	93.06	116,919	76.49
4th qtr.												
Total and average												
Mount Baker-Snoqualmie--												
1st qtr.	20,245	113.46	0	--	0	--	28,217	75.50	15,060	86.94	89,575	86.94
2d qtr.	10,165	136.72	0	--	0	--	22,526	50.46	15,365	52.23	61,000	65.42
3d qtr.	19,725	100.58	0	--	0	--	36,200	50.96	24,360	20.18	107,224	54.34
4th qtr.												
Total and average												
Olympic--												
1st qtr.	10,416	106.72	0	--	0	--	27,084	41.80	3,760	41.39	58,904	61.98
2d qtr.	3,700	34.71	0	--	0	--	13,420	40.00	21,530	13.05	48,452	28.01
3d qtr.	34,290	32.35	0	--	0	--	49,920	18.50	7,250	9.18	106,910	25.75
4th qtr.												
Total and average												

ble 44--Volume and average stumpage price of selected species on the National Forests of the Pacific Northwest Region, 1984[1/] [2/] (continued)

olume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

TIONAL REST	DOUGLAS-FIR				PONDEROSA AND JEFFREY PINES		WESTERN HEMLOCK		TRUE FIRS[3/]		ALL SPECIES	
	WEST SIDE		EAST SIDE									
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
All western Washington:												
1st qtr.	82,191	96.63	0	--	0	--	61,191	56.79	33,740	52.11	231,139	74.40
2d qtr.	52,210	124.60	0	--	0	--	54,759	61.46	48,195	40.45	188,875	69.55
3d qtr.	112,325	79.46	0	--	0	--	117,480	36.04	41,480	35.12	331,053	52.93
4th qtr.												
Total and average												
l western Oregon and stern Washington:												
st qtr.	505,091	152.69	4,300	31.28	6,524	77.07	143,281	73.94	44,315	56.10	899,963	114.00
d qtr.	260,348	125.70	9,680	78.73	3,040	73.12	87,807	61.62	60,085	37.85	522,602	97.21
d qtr.	639,140	95.19	8,500	26.17	3,645	37.31	181,393	46.07	77,965	41.29	1,121,397	74.45
th qtr.												
otal and average												
stern Oregon:												
eschutes--												
1st qtr.	0	--	1,980	309.66	20,900	180.87	0	--	2,880	30.17	31,200	144.65
2d qtr.	0	--	620	34.61	16,885	236.38	0	--	1,169	28.42	25,255	174.60
3d qtr.	0	--	7,020	39.14	40,037	193.00	0	--	1,899	22.50	76,842	108.41
4th qtr.												
Total and average												
remont--												
1st qtr.	0	--	0	--	13,910	104.15	0	--	9,920	44.34	24,980	76.03
2d qtr.	0	--	0	--	24,070	127.08	0	--	6,100	11.60	36,870	86.57
3d qtr.	0	--	0	--	45,782	90.69	0	--	12,303	21.28	58,985	75.02
4th qtr.												
Total and average												
lamath--												
1st qtr.	0	--	8,920	7.83	57,880	172.39	0	--	11,300	3.77	79,350	127.19
2d qtr.	0	--	9,040	15.68	38,125	177.63	0	--	6,090	1.00	55,295	128.00
3d qtr.	0	--	11,340	6.69	48,650	128.68	0	--	8,720	2.14	76,594	83.31
4th qtr.												
Total and average												
Modoc--												
1st qtr.	0	--	3,400	20.07	23,890	112.50	0	--	2,300	15.07	29,560	94.40
2d qtr.	0	--	5,150	21.79	53,650	133.34	0	--	2,050	7.56	61,200	118.99
3d qtr.	0	--	3,500	8.82	10,470	132.09	0	--	41	5.04	20,185	72.81
4th qtr.												
Total and average												
Umatilla--												
1st qtr.	0	--	0	--	0	--	0	--	6,180	53.25	16,070	24.39
2d qtr.	0	--	0	--	0	--	0	--	0	--	0	--
3d qtr.	0	--	0	--	0	--	0	--	12,550	15.82	48,630	20.50
4th qtr.												
Total and average												
Wallowa-Whitman--												
1st qtr.	0	--	16,330	34.85	10,060	96.48	0	--	11,010	49.89	58,220	37.51
2d qtr.	0	--	6,035	82.26	19,015	189.11	0	--	1,200	28.07	26,450	156.39
3d qtr.	0	--	9,105	19.51	15,585	48.71	0	--	11,100	38.01	41,865	37.10
4th qtr.												
Total and average												
Wenatchee--												
1st qtr.	0	--	2,010	37.66	31,390	132.38	1,100	111.00	6,790	15.59	44,590	125.62
2d qtr.	0	--	500	45.94	16,600	276.93	0	--	1,900	107.79	40,050	128.85
3d qtr.	0	--	2,600	25.46	9,520	131.76	0	--	26,150	37.73	38,730	59.58
4th qtr.												
Total and average												
All eastern Oregon:												
1st qtr.	0	--	32,640	42.77	158,030	145.67	1,100	111.00	50,380	31.52	283,970	97.00
2d qtr.	0	--	21,345	37.24	168,345	173.27	0	--	18,539	19.64	245,120	127.52
3d qtr.	0	--	33,565	18.63	170,044	126.64	0	--	72,763	26.53	361,831	70.37
4th qtr.												
Total and average												

Table 44--Volume and average stumpage price of selected species on the National Forests of the Pacific Northwest Region, 1984[1/] [2/] (continued)

(Volume in thousand board feet, Scribner scale; value in dollars per thousand board feet)

NATIONAL FOREST	DOUGLAS-FIR				PONDEROSA AND JEFFREY PINES		WESTERN HEMLOCK		TRUE FIRS[3/]		ALL SPECIES	
	WEST SIDE		EAST SIDE									
	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
Eastern Washington:												
Colville--												
1st qtr.	0	--	539	124.68	73	81.59	0	--	2,526	22.22	19,309	36.86
2d qtr.	0	--	349	75.00	1,000	19.35	0	--	242	45.95	13,471	18.32
3d qtr.	0	--	592	68.07	20	73.01	0	-	902	29.42	8,226	32.16
4th qtr.												
Total and average												
Okanogan--												
1st qtr.	0	--	7,191	86.27	120	25.37	0	--	0	--	8,111	86.44
2d qtr.	0	--	8,020	29.88	3,100	16.59	0	--	0	--	11,120	26.17
3d qtr.	0	--	10,800	23.65	6,000	13.12	0	--	0	--	16,800	19.89
4th qtr.												
Total and average												
Wenatchee--												
1st qtr.	0	--	30,578	62.64	12,655	56.09	2,960	15.81	5,277	20.95	52,770	52.92
2d qtr.	0	--	21,999	39.50	4,980	85.93	0	--	13,500	6.12	41,439	33.34
3d qtr.	0	--	13,600	26.15	6,000	46.37	0	--	8,930	20.66	35,880	26.45
4th qtr.												
Total and average												
All eastern Washington:												
1st qtr.	0	--	38,308	67.95	12,848	55.95	2,960	15.81	7,803	21.36	80,190	52.45
2d qtr.	0	--	30,368	37.67	9,080	55.26	0	--	13,742	6.82	66,030	29.07
3d qtr.	0	--	24,992	25.50	12,020	29.82	0	--	9,832	21.46	60,906	25.41
4th qtr.												
Total and average												
All eastern Oregon and eastern Washington:												
1st qtr.	0	--	70,948	56.37	170,878	138.92	4,060	42.00	58,183	30.16	364,164	87.19
2d qtr.	0	--	51,713	37.31	177,425	168.23	0	--	32,281	14.18	311,150	106.63
3d qtr.	0	--	58,557	21.56	182,064	120.24	0	--	82,595	25.93	422,737	63.89
4th qtr.												
Total and average												
Pacific Northwest Region:												
1st qtr.	505,091	152.69	75,248	54.93	177,308	136.68	147,341	73.06	102,498	41.37	1,264,123	106.27
2d qtr.	260,348	125.70	61,393	43.84	180,465	165.64	87,807	61.82	92,366	29.59	833,752	100.72
3d qtr.	639,140	95.19	67,057	22.15	185,709	118.62	181,393	46.07	160,560	33.39	1,544,134	71.56
4th qtr.												
Total and average												
All of Oregon:												
1st qtr.	422,900	163.59	36,940	41.43	164,455	142.99	83,190	87.05	60,955	37.99	952,794	118.54
2d qtr.	208,138	125.98	31,025	50.18	171,385	171.49	33,048	61.89	30,429	22.64	578,447	119.07
3d qtr.	526,815	98.55	42,065	20.15	173,689	124.76	63,913	64.51	109,248	33.80	1,152,175	79.35
4th qtr.												
Total and average												
All of Washington:												
1st qtr.	82,191	96.63	38,308	67.95	12,848	55.95	64,151	54.93	41,543	46.34	311,329	68.75
2d qtr.	52,210	124.60	30,368	37.37	9,080	55.69	54,759	61.46	61,937	32.99	254,905	59.06
3d qtr.	112,325	79.46	24,992	25.50	12,020	29.82	117,480	36.04	51,312	32.50	391,959	48.65
4th qtr.												
Total and average												

Source--U.S. Department of Agriculture. Pacific Northwest Region includes Oregon and Washington.

1/Preliminary.

2/Prices for individual sales may vary from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Prices for stumpage in National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

3/ Does not include noble fir or Shasta red fir.

ble 45--Volume of timber sold on publicly owned or managed lands in Alaska, 1979-84

thousand board feet, Scribner scale)

NCY	1979	1980	1981	1982	1983 TOTAL	1983 3D QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3D QTR.
S. Forest Service[1] [2]	93,733	145,285	163,700	71,429	79,994	71,502	10,631	13,744	25,505
S. Bur. Land Manage.[3]	22	125	32	1,270	0	0	0	0	0
S. Bur. Indian Affairs	258,360	12,794	200	7,680	0	0	0	0	0
ate of Alaska	156,235	4,949	18,402	24,154	72,145	6,282	4,062	6,270	5,413
Total	508,350	163,153	182,334	104,533	152,139	77,784	14,693	20,014	30,918

rce--respective agencies listed.

cludes sales under $2,000.

nvertible products only.

es not include cull log sales or volume given away through free use permits.

le 46--Average stumpage prices of timber sold on publicly owned or managed lands in Alaska, 1979-84

dollars per thousand board feet)

NCY	1979	1980	1981	1982	1983 AVERAGE	1983 3D QTR.	1984 1ST QTR.	1984 2D QTR.	1984 3RD QTR.
. Forest Service[1]	159.71	101.72	46.91	32.03	14.82	9.84	8.50	11.09	23.61
. Bur. Land Manage.[2]	34.09	6.00	34.00	28.08	--	--	--	--	--
. Bur. Indian Affairs	5.31	151.83	2.00	122.40	--	--	--	--	--
te of Alaska	3.22	24.63	19.21	18.23	87.96	6.96	15.98	15.06	18.47
Average	33.14	103.24	44.06	35.43	49.46	9.61	10.57	12.33	22.71

rce--respective agencies listed. Includes products other than sawtimber.

ices received for individual sales may vary significantly from the averages shown in this table because of differences in species quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price deter-ints. Prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid e minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds).

s not include cull log sales or volume given away through free use permits.

Table 47--Average stumpage prices for sawtimber sold on National Forests by selected species, Alaska Region, 1973-84[1/]

(In dollars per thousand board feet)

YEAR AND QUARTER	SITKA SPRUCE	WESTERN HEMLOCK	CEDAR AND OTHER SOFTWOODS	ALL SPECIES
1973	13.30	11.50	21.10	12.50
1974	41.80	22.30	41.70	28.80
1975	33.00	18.10	60.70	23.20
1976	25.10	12.00	67.30	28.00
1977	65.00	65.00	4.00	63.00
1978	99.17	4.27	136.17	40.57
1979	289.50	100.00	161.70	142.70
1980	213.30	18.40	437.40	101.10
1981	131.60	24.30	4.50	47.50
1982	39.00	14.50	35.70	32.40
1983--				
1st quarter	24.50	7.70	13.80	17.10
2d quarter	70.50	47.20	6.90	60.50
3d quarter	19.95	5.00	8.90	9.80
4th quarter	17.00	5.80	7.00	20.30
1983 average	29.00	6.70	8.90	14.60
1984--				
1st quarter	14.70	6.50	29.20	15.60
2d quarter	23.02	6.91	13.10	12.23
3d quarter	16.13	3.43	202.36	26.28
4th quarter				
1984 average				

Source--Forest Service, U.S. Department of Agriculture. Alaska Region is the State of Alaska.

[1/]Prices received for individual sales may vary significantly from the averages shown in this table because of differences in species mix, quality, road costs, logging and processing costs, size and length of sale, number of bidders, and other related price determinants. Before 1984, prices for stumpage on National Forest lands are statistical high bids. The statistical high bid is defined as the bid price minus credits for road costs; it includes an allowance for sale-area betterment (K-V funds). Beginning in 1984, prices for stumpage on National Forest land are high bid value. Road costs and an allowance for sale-area betterment (K-V funds) are included in the bid.

able 48--Volume and average value of all species of timber sold from the USDA Forest Service Regions of the Western United States, 1973-84[1]

Volume in million board feet, Scribner scale; value in dollars per thousand board feet)

	NORTHERN REGION		ROCKY MOUNTAIN REGION		SOUTHWESTERN REGION		INTERMOUNTAIN REGION		PACIFIC SOUTHWEST REGION		PACIFIC NORTHWEST REGION		ALASKA REGION	
EAR	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
973	1,012.0	48.02	326.9	18.62	391.3	57.58	495.8	76.15	2,202.5	81.64	4,606.4	93.10	73.9	6.88
974	1,036.1	35.62	233.0	11.62	237.6	37.75	293.9	45.32	1,787.2	78.19	4,818.7	125.22	128.2	25.82
975	892.8	17.09	385.5	4.30	368.3	19.83	413.4	8.26	1,870.8	52.21	5,058.4	92.25	147.4	21.41
976	872.0	32.96	290.7	7.70	293.4	33.01	290.5	16.42	1,425.0	77.87	3,624.2	104.23	15.8	21.80
977	1,043.3	49.46	325.7	16.91	281.5	68.86	424.6	19.81	1,705.8	118.40	4,662.8	140.29	1.3	9.77
978	1,090.9	61.35	366.8	23.21	386.3	86.19	364.0	36.75	1,983.1	145.80	4,841.4	172.63	178.3	33.99
979	1,089.1	66.23	382.3	8.41	368.4	90.64	330.3	40.59	2,051.8	200.54	5,364.9	251.69	132.2	127.55
980	1,158.5	46.48	324.9	5.48	338.1	49.11	368.7	26.80	1,867.3	242.22	5,326.7	254.65	147.7	93.84
981	1,033.7	57.45	417.7	8.68	444.7	86.38	342.0	16.05	1,886.6	148.14	5,294.7	209.10	165.7	46.47
982	1,004.8	33.22	338.7	5.72	358.0	23.32	342.6	11.52	1,674.1	52.23	4,957.0	72.73	74.0	31.37
983--														
1st qtr.	244.1	46.27	114.8	13.42	55.4	21.20	40.1	11.95	437.6	83.83	1,678.3	108.68	1.0	17.24
2d qtr.	357.8	45.45	94.8	10.53	80.9	45.11	71.1	14.18	458.7	60.86	980.3	97.85	6.7	65.76
3d qtr.	305.1	47.14	84.5	18.14	174.9	35.59	219.5	24.96	665.0	64.95	1,344.7	78.98	71.6	9.84
4th qtr.	148.3	44.12	36.0	11.98	44.0	37.41	64.6	19.99	221.1	82.82	956.3	97.85	.8	30.01
Total or average	1,055.3	45.93	330.0	13.64	355.2	35.74	395.5	22.25	1,782.4	70.75	4,959.3	96.40	80.1	14.82
984--														
1st qtr.	163.9	48.75	89.5	13.36	111.1	39.96	44.1	23.08	429.8	86.87	1,304.3	101.32	10.6	8.50
2d qtr.	297.0	38.59	100.9	16.42	69.4	42.73	92.9	23.29	338.3	56.26	980.1	97.85	13.7	11.14
3d qtr.	307.9	22.84	187.7	10.71	138.8	35.45	194.5	13.34	468.5	51.05	1,749.5	63.58	25.5	23.61
4th qtr.														
Total or average														

ource: Respective Regions of the Forest Service, U.S. Department of Agriculture.

Northern Region includes Montana, northeastern Washington, northern Idaho, North Dakota, and northwestern South Dakota; Rocky Mountain Region includes olorado, Kansas, Nebraska, remainder of South Dakota, and eastern Wyoming; Southwestern Region includes Arizona and New Mexico; Intermountain Region in-ludes southern Idaho, Nevada, Utah, and western Wyoming; Pacific Southwest Region includes California and Hawaii; Pacific Northwest Region includes regon and Washington; Alaska Region is all of Alaska.

ble 49--Volume and average value of all species of timber harvested from the USDA Forest Service Regions of the Western United States, 1973-84[1]

olume in million board feet, Scribner scale; value in dollars per thousand board feet)

	NORTHERN REGION		ROCKY MOUNTAIN REGION		SOUTHWESTERN REGION		INTERMOUNTAIN REGION		PACIFIC SOUTHWEST REGION		PACIFIC NORTHWEST REGION		ALASKA REGION	
AR	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE	VOLUME	VALUE
73	1,133.7	35.96	329.4	20.20	350.7	38.20	470.7	29.26	2,010.7	58.08	5,369.6	48.15	591.6	6.86
74	1,019.4	29.87	295.0	14.41	366.7	41.90	403.3	28.88	1,734.6	54.64	4,385.4	56.97	549.6	10.63
75	840.3	26.85	245.1	10.60	394.0	30.35	356.7	28.19	1,508.7	45.19	3,764.6	58.73	413.1	8.17
76	1,101.1	40.83	305.0	17.20	396.8	50.25	468.7	55.17	1,889.6	69.38	4,395.9	84.12	472.2	6.31
77	1,008.0	43.25	311.0	16.72	412.1	52.82	431.4	51.95	1,801.3	90.81	4,113.6	106.25	491.3	3.82
78	1,005.8	50.55	276.5	17.85	345.2	66.16	397.6	32.23	1,788.2	102.41	4,514.2	131.47	408.6	4.37
79	957.5	54.46	293.8	15.27	385.8	64.72	412.7	48.16	1,726.6	100.08	4,388.5	135.53	459.5	4.38
80	834.1	35.97	240.0	11.48	336.1	44.27	268.9	24.06	1,507.8	86.82	3,489.4	125.36	453.7	16.42
81	864.0	36.53	256.8	12.15	267.6	53.63	301.3	21.62	1,091.9	95.71	2,978.8	118.44	387.5	13.20
82	528.9	22.39	258.7	6.97	180.0	25.29	287.8	11.13	937.3	47.80	2,458.2	75.05	345.5	14.85
83--														
t qtr.	117.6	15.47	58.5	7.13	33.6	41.33	17.8	7.68	115.6	111.85	646.5	99.20	39.5	2.34
qtr.	185.6	71.34	38.0	15.12	75.5	51.14	49.8	45.20	372.2	120.81	1,012.1	112.02	77.6	14.87
qtr.	463.9	38.49	133.1	12.35	149.1	35.65	180.1	19.72	772.0	96.54	1,439.1	93.69	65.7	.60
h qtr.	304.8	41.56	116.2	8.50	120.2	45.96	169.5	14.39	416.5	75.32	1,189.8	82.76	69.2	17.09
tal or erage	1,071.9	38.15	345.8	10.48	378.4	42.52	417.2	44.06	1,676.3	97.71	4,287.5	95.81	251.9	10.01
84--														
t qtr.	167.9	54.70	61.7	15.32	46.8	33.82	30.9	25.26	191.4	103.79	858.0	118.73	67.0	13.03
qtr.	127.7	48.83	34.2	17.94	87.5	42.27	29.6	15.53	414.8	98.85	1012.1	112.02	44.6	35.88
qtr.	368.1	34.42	127.3	12.01	132.9	25.55	150.1	16.50	635.2	60.88	1,537.2	81.58	79.7	18.07
h qtr.														
tal or erage														

Sce: Respective Regions of the Forest Service, U.S. Department of Agriculture.

1Northern Region includes Montana, northeastern Washington, northern Idaho, North Dakota, and northwestern South Dakota; Rocky Mountain Region includes Colorado, Kansas, Nebraska, remainder of South Dakota, and eastern Wyoming; Southwestern region includes Arizona and New Mexico; Intermountain Region in-cludes southern Idaho, Nevada, Utah, and western Wyoming; Pacific Southwest Region includes California and Hawaii; Pacific Northwest Region includes Oregon and Washington; Alaska Region is all of Alaska.

Table 50--Small business set-aside sales on National Forests by number and volume, Pacific Northwest Region, 1973-84

YEAR AND QUARTER	COLVILLE[1]		DESCHUTES		FREMONT		GIFFORD PINCHOT		MALHEUR		MOUNT BAKER-SNOQUALMIE[2]		MOUNT HOOD	
	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME
	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft
1973	0	--	0	--	2	25,600	12	18,740	0	--	0	--	0	--
1974	4	30,100	0	--	4	46,300	33	172,615	1	650	8	26,860	11	63,527
1975	4	13,855	0	--	5	66,920	18	147,050	2	2,135	8	56,320	17	66,390
1976	1	2,263	0	--	1	15,200	7	68,250	0	--	2	8,350	4	10,658
1977	3	13,800	7	63,290	8	69,000	13	192,500	0	--	10	70,450	15	76,379
1978	4	43,500	0	--	1	357	15	161,500	0	--	0	--	20	83,836
1979	5	42,760	4	2,150	11	79,460	0	--	0	--	19	11,575	34	86,586
1980	2	20,400	3	2,032	6	44,360	16	113,140	0	--	18	6,763	44	26,525
1981	14	39,075	10	7,525	7	38,900	3	290	1	89	15	12,572	29	41,313
1982	10	38,460	9	9,580	8	13,440	18	30,920	0	--	12	4,400	31	16,246
1983	4	2,495	1	640	12	56,890	22	18,671	4	1,165	11	11,075	32	16,905
1984--														
1st qtr.	1	400	0	--	2	8,900	2	10,020	1	545	3	8,470	4	1,230
2d qtr.	3	3,080	1	2,020	2	8,900	12	8,323	0	—	2	1,060	6	1,648
3d qtr.	0	--	0	--	0	--	17	13,540	0	--	2	980	6	1,879
4th qtr.														
1984 total														

YEAR AND QUARTER	OCHOCO		OKANOGAN		OLYMPIC		ROGUE RIVER		SISKIYOU		SIUSLAW		UMATILLA	
	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME
	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft
1973	0	--	0	--	22	92,199	0	--	17	94,680	14	72,701	5	22,400
1974	0	--	3	19,000	12	78,990	28	98,752	12	52,775	34	174,471	11	74,710
1975	3	39,550	2	21,000	8	53,842	24	143,665	22	59,331	26	201,478	5	28,620
1976	3	19,270	2	9,300	5	45,579	18	46,254	7	22,335	17	118,763	6	23,110
1977	0	--	1	11,500	2	30,926	25	100,807	14	58,980	17	91,027	7	31,100
1978	5	34,300	0	--	6	44,615	47	171,251	13	62,300	39	231,303	0	--
1979	3	23,500	7	20,105	12	106,105	50	118,818	2	270	16	120,834	4	35,500
1980	1	7,700	2	10,600	12	69,100	31	123,125	7	29,510	7	45,137	3	18,200
1981	5	35,000	2	13,100	6	58,500	54	168,580	24	78,733	44	201,038	7	36,936
1982	3	1,100	3	15,750	4	1,860	26	85,272	33	45,719	44	94,808	1	150
1983	2	640	0	- -	4	2,660	46	86,635	14	29,755	15	2,951	5	32,400
1984--														
1st qtr.	0	—	0	--	1	140	2	990	4	25,440	6	904	2	5,400
2d qtr.	0	--	0	--	0	--	8	8,036	3	13,980	1	230	0	--
3d qtr.	0	--	0 --	--	0	--	7	7,685	7	36,675	1	390	0	--
4th qtr.														
1984 total														

YEAR AND QUARTER	UMPQUA		WALLOWA-WHITMAN		WENATCHEE		WILLAMETTE		WINEMA		ALL FORESTS	
	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME	SALES	VOLUME
	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft	Number	Thousand bd ft
1973	0	--	8	77,400	0	--	7	58,510	5	22,460	92	484,690
1974	22	124,807	0	--	0	--	7	61,520	5	35,550	195	1,060,627
1975	29	146,668	0	--	2	17,400	10	137,810	9	69,600	194	1,271,634
1976	21	55,093	0	--	0	--	19	121,100	5	38,040	118	603,565
1977	29	128,705	0	--	0	--	48	174,585	8	35,110	207	1,148,159
1978	29	125,330	0	--	0	--	33	177,660	13	60,006	225	1,195,958
1979	35	169,212	0	--	5	23,100	53	146,366	6	59,050	266	1,045,391
1980	31	166,650	7	1,799	4	18,000	83	197,229	4	30,400	281	930,670
1981	49	119,185	16	79,375	9	41,760	63	137,827	8	69,900	366	1,179,698
1982	36	91,800	10	36,660	7	17,812	80	73,989	7	61,400	342	639,566
1983	13	3,135	3	1,907	11	33,880	43	78,021	2	12,500	244	392,325
1984--												
1st qtr.	5	1,730	0	--	2	10,500	15	10,838	0	--	50	85,507
2d qtr.	4	1,190	2	1,250	5	3,529	10	6,542	2	19,000	61	78,788
3d qtr.	5	2,970	5	7,280	5	12,000	8	2,660	0	--	63	86,259
4th qtr.												
1984 total												

Source--Forest Service, U.S. Department of Agriculture. Pacific Northwest Region includes Oregon and Washington and a small portion of northern California

[1]July 1, 1974, Colville National Forest in Washington became part of the Pacific Northwest Region.

[2]July 1, 1974, Snoqualmie National Forest was merged with the Mount Baker National Forest.

Table 51--Uncut volume under contract on National Forest lands in California, Montana, Idaho, Oregon, and Washington, 1973-84[1/] (revised)

(In million board feet, Scribner log rule)

YEAR	CALIFORNIA	MONTANA	IDAHO[2/] NORTHERN	IDAHO[2/] SOUTHERN	OREGON	WASHINGTON
1973	NA	1,362.1	1,333.3	[3/]1,089.1	7,549.1	3,196.3
1974	5,030.2	1,242.4	1,438.3	1,040.1	7,004.2	3,255.1
1975	5,594.0	1,214.8	1,541.3	1,106.4	7,752.2	3,704.8
1976	[4/]5,516.3	1,350.4	[4/]1,650.5	578.9	7,755.8	3,822.3
1977	[4/]4,882.3	[4/]1,309.9	[4/]1,480.1	[3/]993.6	7,351.5	4,293.5
1978	5,126.4	[3/]1,331.4	[3/]1,604.9	[4/]1,009.2	8,538.3	3,948.3
1979	[3/]5,221.5	[3/]1,426.0	[3/]1,525.5	[3/]939.3	8,610.5	4,730.6
1980	[3/]5,834.9	1,468.6	1,386.6	819.1	9,939.3	4,526.7
1981	[3/]6,225.2	[3/]1,631.8	[3/]1,693.6	[3/]780.7	[4/]12,020.1	[4/]5,377.1
1982	[4/]7,365.6	[4/]1,800.7	[3/]1,833.6	756.0E	[4/]12,646.6	[4/]5,478.3
1983	[3/]6,974.9	[4/]1,848.9	[4/]1,995.9	[4/]807.0	[3/]13,361.9	[3/]5,820.4
1984	[3/]7,278.0	[4/]1,752.2	[4/]1,740.1	[4/]810.0	[3/]12,857.4	[3/]5,312.0R

Source--Forest Service, U.S. Department of Agriculture, Regions 1, 4, 5, and 6.

1/As of December 31 unless otherwise noted.

2/National Forests in northern Idaho for fiscal years 1972 and 1973 are Clearwater, Coeur D'Alene, Kaniksu, Nezperce, St. Joe. After fiscal year 1974, the National Forests in northern Idaho are Clearwater, Nezperce, and the Panhandle administrative unit which absorbed the Coeur D'Alene and the St. Joe National Forests; in southern Idaho, the National Forests are Boise, Caribou, Challis, Payette, Salmon, and Targhee.

3/As of September 30.

4/As of June 30.

E = estimated.

R = revised.

NA = not available.

GPO 595 - 071 (1985)

Ruderman, Florence K. Production, prices, employment, and trade in Northwest forest industries, third quarter 1984. Resour. Bull. PNW-123. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station; 1985; 49 p.

Provides current information on lumber and plywood production and prices; employment in the forest industries; international trade in logs, lumber, and plywood; volume and average prices of stumpage sold by public agencies; and other related items.

Keywords: Forestry business economics, lumber prices, plywood prices, timber volume, stumpage prices, employment (forest products industries), marketing, (forest products), import/export (forest products), markets (external), economics (forestry business).

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